

CERTIFICATE OF ACCREDITATION

Korea Testing and Research Institute

Accreditation No. : KT011

Corporation Registration No. : 134122-0007297

Address of Laboratory : 98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, Korea
68, Gajaeul-ro, Seo-gu, Incheon, Korea
15, Jongga-ro, Jung-gu, Ulsan, Korea
42-27, Jungbu-daero 2517beon-gil, Yangji-myeon, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
5, Myeongji ocean city 9-ro, Gangseo-gu, Busan, Korea
12-63, Sandan-gil, Hwasun-eup, Hwasun-gun, Jeollanam-do, Korea
122-11, Seongseo4chacheomdan-ro, Dalseo-gu, Daegu, Korea

date of Initial Accreditation : December 10, 1994

Duration : April 28, 2014 ~ April 27, 2018

Scope of Accreditation : Attached Annex

Date of issue : August 7, 2017

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025 : 2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 8 January 2009).



Jung Dong Hee

Administrator

Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme

No. KT011

Address of Laboratory : 98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do

01. Mechanical Test

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS B 0529 : 1994	Method of bend test for stud welds	Defect Length : Min. 0.5 mm
KS B 0802 : 2003	Method of tensile test for metallic materials	Tensile strength : Min. 0.1 MPa Yield strength : Min. 0.1 MPa Elongation : Min. 0.1 % Reduction of Area : Min. 0.1 %
KS B 0804 : 2001	Metallic materials – Bend test 4.1 Bend device consisted of the fixture and mandrel	Test Load : Max. 2 000 kN
KS B 0805 : 2000	Metallic materials - Test method of brinell hardness	Test Load : (4 903 ~ 29 420) N
KS B 0806 : 2000	Metallic materials - Test method of rockwell hardness	(20 ~ 100) HRB (20 ~ 70) HRC
KS B 0807 : 2009	Method of shore hardness test	(5 ~ 105) HSD
KS B 0810 : 2003	Method of impact test for metallic materials 8. Absorbed Energy 8. Percent Shear Fracture 8. Lateral Expansion	(0 ~ 407) J / 0.1 J (0 ~ 100) % (0 ~ 25) mm / 0.001 mm
KS B 0811 : 2003	Metallic materials - Vickers hardness test – Part1 : Test method	Test Load : (0.098 ~ 490) N

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS B 0821 : 2007	Methods of tension and impact tests for deposited metal	Tensile : Min. 1 MPa Yield strength : Min. 1 MPa Elongation : Min. 1 % Impact : (0 ~ 407) J
KS B ISO 5173 : 2000	Destructive tests on welds in metallic materials - Bend tests	Defect Length : Min. 0.5 mm
KS B 0833 : 2001	Fusion-welded butt joints in steel -Transverse tensile test -Tensile Strength	Min. 1 MPa
KS B ISO 9018 : 2003	Destructive tests on welds in metallic materials- Tensile test on cruciform and lapped joints	Min. 1 MPa
KS B 0885 : 2016	Standard qualification procedure for manual welding technique 13.2 Bending test	Defect Length : Min. 0.5 mm
KS B 0886 : 2016	Standard qualification procedure for welding technique of aluminium and aluminium alloy 13.2 Bending test	Defect Length : Min. 0.5 mm
KS B 1062 : 2014 (Appendixes A)	Headed studs A.2 a) Weldmetal tesile load test A.2 b) Weldmetal bend test	Tensile : Min. 1 MPa Bend : Min. 0.5 mm
KS B ISO 8492 : 2001	Metallic materials Tube Flattening test	Test Load : Max. 2 000 kN
KS B ISO 8493 : 2001	Metallic materials Tube Drift-expanding test	Test Load : Max. 2 000 kN

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS C 3002 : 1996	Testing methods of electrical copper and aluminium wires 5. Tensile test 6. Conductivity	Tensile strength : Min. 0.1 MPa Elongation : Min. 0.1 % Conductivity : ($10^{-6} \sim 1$) Ω
KS D 0027 : 2002	Methods of measuring case depth for steel hardened by flame or induction hardening process 4.a) Measurement method by hardness test 4.b) Measurement method by macrostructure test	Test Load : (0.98 ~ 98.1) N Magnification : Max. X20
KS D 0202 : 1987	Methods for estimating the average grain size of wrought copper and copper alloy 8. Planimetric Mensuration	Min. 0.001 mm
KS D 0205 : 2002	Steel – Micrographic determination of the ferritic or austenitic grain size	Magnification : X(50 ~ 1 000)
KS D 0210 : 1992	Macrostructure detecting method for steel	-
KS D 0215 : 2000	Steel-Determination and verification of the effective depth of carburized and hardened cases	Test Load : (4.903 ~ 49.03) N
KS D 0216 : 2001	Methods of measuring decarburized depth for steel 6.1 Measurement method by microscope	Magnification : X(50 ~ 1 000)
KS D 0226 : 2002	Method of sulphur print test for steel	-

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS D 0240 : 2010	Measuring methods for electrical resistivity and conductivity of non-ferrous metals 4.7 Conductivity(Weight)	Electrical resistivity : $(10^{-6} \sim 1) \Omega$ Weight : Min. 0.001 g
KS D 0249 : 2016	Method of inspection for mechanical splicing joint of bars for concrete reinforcement 6.1 Appearance 6.2 Uni-directional tensile test 6.3 Static strength test 6.4 Low cyclic test 6.5 Cyclic strength test on high-stress 6.6 High cyclic fatigue test 6.7 Performance test of low temperature	Tensile strength : Min. 0.1 MPa Yield strength : Min. 0.1 MPa Test Load : Min. 1 N Frequency : Min 0.01 mm Test Load : Max. 600 kN Test Load : Min. 1 N Displacement : Min 0.01 mm Test Load : Max. 200 kN Frequency : Min 0.1 Hz Test Load : Max. 2 000 kN Test temperature : Max. -196 °C
KS D 0274 : 1993	Method of measuring nitrided case depth for iron and steel	Hardness test : Max. 2.942 N Microstructure test : X(50~1 000)

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS D 3504 : 2016	Steel bars for concrete reinforcement 4. Chemical composition 5. Mechanical property 6. Shape, Dimension, Weight	C : 0.008 ~ 4.09 Si : 0.004 ~ 3.38 Mn : 0.047 ~ 19.59 P : 0.005 ~ 1.00 S : 0.001 ~ 0.309 Tensile strength : Min. 0.1 MPa Yield strength : Min. 0.1 MPa Elongation : Min. 0.1 % Bending load : Max. 2 000 kN Shape : - Dimension : Min. 0.01 mm Weight : Min. 1 g
KS D 3505 : 2002	Steel bars for prestressed concrete 9.2.3. Relaxation test	Test Load (30 ~ 3 000) kN
KS D 3552 : 2014	Low carbon steel wires 11.4. Twist test	Linear diameter : Max. 6 mm
SPS-KFCA-D4302-5016 : 2014	Spheroidal graphite iron castings 12.6 Spheroidized Ratio of graphite	Magnification : X(50 ~ 100)
KS D 7002 : 2011	Uncoated stress-relieved steel wires and strands for prestressed concrete 10.3. Relaxation test	Test Load : (30 ~ 3 000) kN
KS D 7011 : 2002	Zinc-coated low carbon steel wires 11.3 Twist test 11.4 Coating weight Measuring test 11.5 Winding test	Linear diameter : Max. 8.00 mm Min. 20 g/m ² Linear diameter : Max. 8.00 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS D 7001 : 1996	Barbed wires 4. Mechanical property 5. Zinc plating 6. Dimensions	Tensile strength : Min. 0.1 N/mm ² Coating Weight : Min. 0.1 g / m ² Diameter: Min. 0.001 mm Length: Min. 0.01 mm Angle: Min. 0.1 °
KS D 7034 : 1981	Concrete nails 5. Dimensions 6.2 Mechanical property 6.3 Protective film	Length: Min 0.01 mm Hardness: (20 ~ 70) HRC Zinc plating thickness : Min. 0.01 μm Enamel thickness : Min. 0.001 mm
API STD 1104 : 2014	Welding of Pipelines and Related Facilities	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Bend : Min. 0.5 mm Nick : Min. 0.5 mm Macro : Min. 0.1 mm
ASME Sec. IX : 2015	Welding, brazing, and Fusing qualifications : Article XXI Plastic Fusing General Requirements, Article XXII Fusing Procedure, Article XXIII Plastic Fusing Performance Qualifications, Article XXIV Plastic Fusing Data	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 196) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
ASTM A352/352(M)-06 (2012)	Standard Specification for steel Castings, Ferritic and Martensitic, for Pressure-Containing parts, Suitable for Low-Temperature Service. 7.2 Charpy Absorbed Energy	(0 ~ 407) J / 0.1 J
ASTM A370-17	Standard Test Methods and Definitions for Mechanical Testing of Steel	Tensile strength : Min. 0.1 MPa Yield strength : Min. 0.1 MPa Elongation : Min. 0.1 % Reduction of Area : Min. 0.1 % Bending : Max. 2 000 kN Brinell Test Load : (4 903 ~ 29 420) N Rockwell : (20 ~ 100) HRB Rockwell : (20 ~ 70) HRC Shore : (5 ~ 105) HS Impact Test : (0 ~ 407) J / 0.1 J - Shear Fracture : (0 ~ 100) % - Lateral Expansion : Max. 25 mm
ASTM E10-17	Standard Test Method for Brinell Hardness of Metallic Materials	Test Load : (4 903 ~ 29 420) N

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
ASTM E1077-14	Standard Test Methods for Estimating the Depth of Decarburiation of steel specimens.	Min. 0.001 mm
ASTM E112-13	Test Methods for Determining the average Grain size	G00 ~ G14.0
ASTM E18-16	Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials.	HRB, HRC
ASTM E23-16b	Test Methods for Notched Bar Impact Testing of Metallic Materials 8.3 Charpy Absorbed Energy 9.2 Lateral Expansion 9.3 Percent Shear Fracture	(0 ~ 407) J / 0.1 J Max. 25 mm (0 ~ 100) %
ASTM E340-15	Standard Test Method for Macroetching Metals and Alloys	-
ASTM E384-11e1	Standard Test Method for Knoop and Vickers Hardness of Materials	Vickers Hardness Test Load : (0.098 ~ 490) N
ASTM E407-07e1	Practice for Microetching Metals and alloys	-
ASTM E8/8(M)-16a	Test Methods for Tension Testing of Metallic Materials	Tensile strength : Min. 0.1 MPa Yield strength : Min. 0.1 MPa Elongation : Min. 0.1 % Reduction of Area : Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
AWS D1.1 : 2015	Structural welding code-Steel	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 196) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm
AWS D1.3 : 2008	Structural welding code-Sheet Steel 4.6.1 Square-Groove Welds in Butt Joints 4.6.2 Fillet Welds 4.6.3 Flare-Groove Welds 4.6.4 Arc Spot Welds 4.6.5 Arc Seam Welds	Bend : Min. 0.5 mm
AWS D1.5 : 2015	Bridge Welding Code	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 196) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm
EN ISO 9016 : 2012	Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination	(0 ~ 407) J / 0.1 J
EN ISO 4136 : 2012	Destructive tests on welds in metallic materials - Transverse tensile test	Min. 1 MPa
EN ISO 9015-1 : 2011	Destructive tests on welds in metallic materials. Hardness test on arc welded joints	Vickers Hardness Test Load : (9.8 ~ 98) N

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
EN ISO 17639 : 2013	Destructive tests on welds in metallic materials - macroscopic and microscopic examination of welds	Macro : Min. 0.1 mm Micro : Min. 1 μ m
BS EN ISO 148-1 : 2016	Metallic materials. Charpy pendulum impact test. Test method	(0 ~ 407) J / 0.1 J
EN ISO 15614-1 : 2004 + A2 : 2012	Specification and qualification of welding procedures for metallic materials - Welding procedure test-Part 1 : Arc and gas welding of steels and arc welding of nickel and nickel alloys	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 98) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm
EN ISO 15614-2 : 2005	Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 2 : Arc welding of aluminium and its alloys	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 98) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm
EN ISO 15614-5 : 2004	Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 5 : Arc welding of titanium, zirconium and their alloys	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 98) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm
EN ISO 15614-6 : 2006	Specification and qualification of welding procedures for metallic materials-Welding procedure test-part 6 : Arc and gas welding of copper and its alloys	Tensile : Min. 1 MPa Impact : (0 ~ 407) J Vickers Hardness Test Load : (9.8 ~ 98) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
EN ISO 15614-7 : 2007	Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 7 : Overlay welding	Vickers Hardness Test Load : (9.8 ~ 98) N Bend : Min. 0.5 mm Macro : Min. 0.1 mm
EN ISO 15614-8 : 2016	Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 8 : Welding of tubes to tube - plate joints	Vickers Hardness Test Load : (9.8 ~ 98) N Macro : Min. 0.1 mm
ISO 4136 : 2012	Destructive tests on welds in metallic materials - Transverse tensile test	Min. 1 MPa
ISO 5173 : 2009	Destructive tests on welds in metallic materials-Bend test	Min. 0.5 mm
ISO 5178 : 2001	Destructive tests on welds in metallic materials- Longitudinal tensile test on weld metal in fusion welded joints	Min. 1 MPa
ISO 5817 : 2014	Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections	Macro : Min. 0.5 mm
ISO 9015-1 : 2001	Destructive tests on welds in metallic materials-Hardness testing -Part 1 : Hardness test on arc welded joints	Vickers Hardness Test Load : (49 ~ 98) N
ISO 9017 : 2001	Destructive tests on welds in metallic materials - Fracture test	Min. 0.5 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
EN ISO 5173 : 2010 + A1 2011	Destructive tests on welds in metallic materials-Bend tests	0.5 mm(min)
ISO 9015-2 : 2003	Destructive tests on welds in metallic materials -Hardness testing -Part 2 : Microhardness testing of welded joints	Vickers Hardness Test Load : (9.8 ~ 49) N
ISO 10042 : 2005	Welding -Arc-welded joints in aluminium and its alloys - Quality levels for imperfections	Macro : Min. 0.1 mm
JIS G 3536 : 2014	Uncoated stress-relieved steel wires and strands for prestressed concrete 10.3. Relaxation test	Test Load : (30 ~ 3 000) kN
JIS G 3547 : 2015	Zinc-coated low carbon steel wires 10.4 Weight of coating	Min. 20 g/m ²
JIS H 0501 : 1986	Methods for estimating the average grain size of wrought copper and copper alloy 8.Planimetric Mensuration	Min. 0.001 mm
JIS Z 2241 : 2011	Method Of Tensile Test For Metallic Materials	Tensile strength : Min. 0.1 MPa Yield strength : Min. 0.1 MPa Elongation : Min. 0.1 % Reduction of Area : Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.001 Metals and Metal Products

Test Method	Standard designation	Test range
JIS Z 2242 : 2005	Method of impact test for metallic materials. 8. Charpy Absorbed Energy Annex B. Lateral Expansion Annex B. Percent Shear Fracture	(0 ~ 407) J / 0.1 J Max. 25 mm (0 ~ 100) %
JIS Z 2243 : 2008	Method Of Brinell Hardness Test	Test Load : (4 903 ~ 29 420) N
JIS Z 2244 : 2009	Metallic materials - Vickers hardness test – Part1 : Test method	Test Load : (0.098 ~ 490) N
JIS Z 2245 : 2016	Method Of Rockwell And Rockwell Superficial Hardness Test	(20 ~ 100) HRB (20 ~ 70) HRC
JIS Z 2246 : 2000	Method Of Shore Hardness Test	(5 ~ 105) HSD
JIS Z 2248 : 2014	Metallic materials – Bend test	Test Load : Max. 2 000 kN
JIS Z 3121 : 2013	Methods of tensile test for butt welded joints	Min. 1 MPa
JIS Z 3122 : 2013	Methods of Bend Test for Butt Welded Joint	Min. 0.5 mm
JIS Z 3128 : 1996	Method of Impact test for Welded Joint	(0 ~ 407) J / 0.1 J
JIS Z 3134 : 1965	Method of Bend Test for T Type Fillet Welded Joint	Min. 0.5 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS B 2805 : 2002	O-ring 9.1.1 Physical properties test of product 9.2 Materials test	1 ~ 100 Min. 0.01 MPa Min. 0.1 %
KS F 2471 : 2011	STANDARD TEST METHODS FOR PREFORMED EXPANSION JOINT FILLERS FOR CONCRETE(NONEXTRUDING AND RESILIENT TYPES) 7.4 Restoration 7.5 Compression 8. Projection 9. Boil in Hydrochloric acid 10. Promote weathering test 13. Absorption 14. Density	Min. 0.01 % Min. 0.01 kPa Min. 0.03 mm Min. 0.01 % more than 0.1 kg/m ³
KS F 3211 : 2015	Waterproofing membrane coating for construction	Min. 0.01 N/mm ² Min. 0.1 % 0.1 mm
KS F 4420 : 1998	STEEL-LAMINATED ELASTOMERIC BEARINGS FOR BRIDGE 6.1 Physical performance 6.2.1 Shear modulus(G) test 6.2.2 Shear adhesion test method 6.2.3 Compressive strength test method 6.2.4 Repeated compression load test method 6.2.5 Eccentric loading test method 6.2.7 Ozone resistance test method	Min. 0.1 MPa Min. 0.1 % Min. 0.1 kN/m 1 ~ 100 Min. 0.01 mm Min. 0.01 MPa Min. 0.01 %
KS F 4424 : 1996	POT BEARINGS FOR BRIDGES 7.1 Quality of material (2) Rubber sheet	Min. 0.1 MPa Min. 0.1 % 1 ~ 100
KS F 4425 : 2001	STANDARD TEST METHOD FOR BRIDGE EXPANSION JOINT 6.1 Test method of rubber 7.1 Shrinkage test 7.2 Fatigue cyclic test	Min. 0.1 MPa Min. 0.1 % 1 ~ 100 Min. 0.1 kN/m

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS F 4911 : 2012	Waterproofing sheets of synthetic polymer	Min. 0.01 mm Min. 0.1 g/m ² Min. 0.01 N/mm ² Min. 0.1 % Min. 0.01 N/mm Min. 0.01 mm Min. 0.1 N/mm
KS F 4917 : 2016	Polymer-modified bitumen waterproofing sheet	Min. 0.01 mm Min. 0.1 g/m ² Min. 0.01 N/mm Min. 0.1 % Min. 0.1 N·%/mm Min. 0.1 N Min. 0.1 mm Min. 0.001 % Min. 0.001 N/mm
KS F 4919 : 2008	CEMENT-POLYMER MODIFIED WATERPROOF COATINGS 5.7 Tensile performance test	Min. 0.01 N/mm ² Min. 0.1 %
KS F 4922 : 2007	Polyurea resin waterproofing membrane coating 5.1.2 d) Solid content 5.2.6 Tensile performance test 5.2.7 Tear performance test 5.2.8 Temperature dependence test 5.2.9 Heating expansion and contraction properties 5.2.10 Tensile performance degradation after treatment 5.2.11 Degradation of properties at the time of extension 5.2.13 Fatigue performance	Min. 0.1 % Min. 0.1 N/mm ² Min. 0.1 N/mm
KS M 3736 : 2009	WATERPROOFING SHEET WITH EXPANDABLE BENTONITE	Min. 0.01 mm Min. 0.1 g/m ² Min. 0.1 % Min. 0.1 N/cm ² Min. 0.01 N/cm
KS M 3824 : 2008	TESTING METHODS FOR THERMOPLASTIC POLYURETHANE	Min. 0.000 1 Min. 0.1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
	ELASTOMERS 5. Specific gravity test 6. Tensile test 7. Tear test 8. Hardness test 9. Rebound resilience test 10. Abrasion test	Min. 0.01 % Min. 0.1 kN/m 1 ~ 100 Min. 0.1 % Min. 0.1 mg
KS M 6518 : 2016	PHYSICAL TESTING METHODS FOR VULCANIZED RUBBER 5. Tensile test 6. Test temperament always height permanent 7. Hardness test 8. Aging test 9. Peel test 10. Tear test 11. Compression set test 12. Rebound resilience test 13. Immersion test 14. Adhesion test of the metal 15. Short stature stress test 16. Ozone cracking test 17. Compression test	Min. 0.01 MPa Min. 0.1 % 1 ~ 100도 Min. 0.01 kN/m Min. 0.01 %
KS M 6519 : 2008	METHOD OF ANALYSIS FOR RUBBER GOODS 7.1.1 Method of suspending in water (Method to quantify in a liquid)	Min. 0.000 1
KS M 6522 : 2016	CANVAS BOOTS AND RUBBER OUTSOLE 7.9 Cold test of outsole	-
KS M 6523 : 2016	RUBBER OUT SOLES AND HEELS FOR SHOES 7.1 Thickness Measurement 7.2 Length and width Measurement 7.3 Hardness test 7.4 Tensile and elongation test	Min. 0.01 mm 1 ~ 100 Min. 0.000 1 MPa Min. 0.001 N/cm Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
	7.5 Tear Strength test 7.6 Oil resistance test 7.8 Cutting growth test	
KS M 6533 : 2016	FLAT RUBBER BELTS 8.2 Peel test	Min.0.1 N (About 25 mm in width)
KS M 6540 : 2014	TESTING METHODS FOR RUBBER HOSES 5.2.2 Low-temperature test 5.2.4 Peel test(A method) 5.2.5 Ozone aging test 5.2.6 Heat aging test 5.3 Physical testing of rubber layer	Min. 0.1 N/m min. 0.01 MPa min. 1.0 % 1 ~ 100
KS M 6604 : 2016	TESTING METHOD FOR RUBBER VIBRATION ISLATORS	min. 1.0 kN/m min. 0.1 N 1 ~ 100 Min. 0.01 MPa Min. 0.1 % Min. 0.01 %
KS M 6613 : 2007	RUBBER GOODS FOR WATER WORKS SERVICE 7.1 Hardness test 7.2 Tensil test 7.3 Permanent elongation test 7.4 Aging test 7.5 Compression set test	1 ~ 100 Min. 0.1 N/cm ² Min. 0.1 % Min. 0.1 % Min. 0.01 %
KS M 6614 : 2014	RUBBER PACKING MATERIALS FOR INDUSTRIAL USE	1 ~ 100 Min. 0.001 MPa Min. 0.1 %
KS M 6617 : 2016	RUBBER MATERIALS FOR VIBRATION ISOLATORS	Min. 0.001 MPa Min. 0.1 % Min. 1~100
KS M 6626 : 2016	CLASSIFICATION SYSTEM FOR ELASTOMERIC MATERIALS FOR AUTOMOTIVE APPLICATIONS 5. Test method	1 ~ 100 Min. 0.001 MPa Min. 0.1 % Min. 0.001 N/cm Min. 0.01 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
	<ul style="list-style-type: none"> - Tensile strength(KS M ISO 37 reference) - Hardness(KS M ISO 7619-1 reference) - Heat resistance(KS M ISO 188 reference) - Compression set(KS M ISO 815-1 reference) - Appendix 4 Water resistance test - Appendix 6 Ozone aging test - Oil resistance(KS M ISO 1817 reference) - Cold resistance(KS M ISO 812 reference) - Appendix 10 Low-temperature torsion test - Tear strength(KS M ISO 34-1 reference) - Adhesive strength(KS M ISO 814 reference) 	
KS M 6629 : 2014	Rubber hoses for liquefied petroleum gases(LPGs) - Automobile, general equipment and home application - Specification	-
KS M 6633 : 2014	HOUSEHOLD RUBBER GLOVES 7.2 Tensile performance 7.3 Oil resistance test 7.4 Acid resistance test 7.5 Alkali resistance test 7.6 Detergent resistance test 7.7 Pinhole test	Min. 0.1 N/m Min. 0.1 %
KS M 6675 : 2016	TESTING METHODS FOR FATIGUE PROPERTIES OF RUBBER MATERIALS FOR VIBRATION ISOLATORS	Min. 0.001 N/mm
KS M 6676 : 2008	Rubber, vulcanized or thermoplastic-Determination of low temperature properties 5. Low-temperature impact embrittlement test 7. Low temperature elastic recovery test (TR test)	Min. 0.1 °C

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS M 6721 : 2008	TESTING METHOD OF CUT GROWTH USING ROSS FLEXING APPARATUS	Min. 0.001 %
KS M 6749 : 2012	RUBBER DRAFT GEARS FOR RAILWAY ROLLING STOCK A.3.6 Rebound resilience test	Min. 0.1 %
KS M 6785 : 2009	Testing methods of stress-strain properties at low deformation for vulcanized rubber	Min. 0.01 MPa Min. 0.001 MPa
KS M ISO 11346 : 2007	Rubber, vulcanized or thermoplastic — Estimation of life-time and maximum temperature of use	-
KS M ISO 1431-1 : 2014	Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing	-
KS M ISO 1817 : 2015	Rubber, vulcanized - Determination of the effect of liquids	Min. 0.1 % Min. 1 ° Min, 0.1 g/m ²
KS M ISO 1856 : 2007	Flexible cellular polymeric materials — Determination of compression set	Min. 0.001 %
KS M ISO 188 : 2014	Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests	Min. ± 0.0 %
KS M ISO 2921 : 2014	Rubber, vulcanized - Determination of low-temperature characteristics - Temperature-retraction procedure(TR test)	Min. 0.1 °C
KS M ISO 34-1 : 2014	Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1 : Trouser, angle and crescent test pieces	Min. 0.001 kN/m
KS M ISO 37 : 2007	Rubber, vulcanied or thermoplastic -Determination of tensile stress-strain properties	Min. 0.01 MPa Min. 0.1 %
KS M ISO 6907 : 2008	Rubber Footwear-Vulcanized Resin Rubber and Vulcanized High-Hardness Rubber Soling Materials-Specification - Annex A(normative) Resistance to cut growth(Bending test)	Min. 0.001 %

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS M ISO 6943 : 2012	Rubber, Vulcanized — Determination of tension fatigue	-
KS M ISO 7619-1 : 2016	Rubber, vulcanized or thermoplastic - Determination of indentation hardness - Part 1 : Durometer method(Shore hardness)	1 ~ 100
KS M ISO 8013 : 2016	Rubber, vulcanized - Determination of creep in compression or shear 10.1.1 Increase of compressive creep 10.2.1 Compressive creep index 10.3.1 Increase of compression compliance	Min. 0.001 Min. 0.01 mm ² /N
KS M ISO 812 : 2014	Rubber, vulcanized or thermoplastic - Determination of low-temperature brittleness	Min. 0.1 °C
KS M ISO 813 : 2014	Rubber, vulcanized or thermoplastic –Determination of adhesion to a rigid substrate—90° peel method	Min. 0.01 N/mm
KS M ISO 815-1 : 2015	Rubber, vulcanized or thermoplastic - Determination of compression set - Part 1 : ambient or elevated temperatures	Min. 0.1 %
KS M ISO 815-2 : 2014	Rubber, vulcanized or thermoplastic – Determination of compression set – Part 2 : At low temperatures	Min. 0.1 %
KS M ISO 845 : 2012	Cellular plastics and rubbers-Determination of apparent (bulk) density	Min. 0.000 1 kg/m ³
KS G 3602 : 2014	Domestic Pressure Pans and Pressure Pots 6.4.1 Ozone Resistance Test 6.4.2 Heat Resistance Test 6.4.3 Tension Set 6.4.4 Percentage Change in Volume 6.4.5 Shrinkage Test	Min. 0.1 %
KS L 5406 : 2012	Compressed fiber jointing 6.2.2 Tensile Strength 6.2.3 Compressibility/Recovery 6.2.4 Oil Resistance Test 6.2.5 Flexibility 6.2.8 Ignition Loss	Min. 0.01 MPa Min. ± 0.00 %

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS M 3405 : 2002	Spray Polyvinyl Chloride Hoses for Agriculture Use 6.3 Peel Test 6.4 Tensile Test 6.5 Aging Test	Min. 0.01 N/mm Min. 0.01 MPa Min. 0.1 %
KS M 6529 : 2013	Butyl Rubber Tube for Automobile 6.1 Tensile Test 6.2 Tensile Set after Aging	Min. 0.01 MPa
KS M 6534 : 2016	Conveyor Rubber Belts 9.4 Tensile Test of Cover Rubber 9.5 Aging Test of Cover Rubber 9.6 Ozone Resistance Test of Cover Rubber 9.9 Adhesive Test	Min. 0.01 MPa Min. \pm 0.0 % Min. 0.01 N
KS M 6609 : 2008	Hydraulic High Pressure Hose 8.6 Ozone Aging Test of Outer Rubber Layer 8.7 Oil-Resistant Test of Inner Rubber Layer	Min. \pm 0.0 %
KS M 6610 : 2014	Retreaded Tires(Tyres) 5.2 Thickness of Tread 6.1 Hardness Test of Rubber 6.2 Tensile Test of Rubber 6.3 Aging Test of Rubber 6.4 Peel Test of Copula 6.5 Tire Strength(Fracture Energy) Test 6.6 Bead Release Test	Min. 0.01 mm 1 ~ 100 Min. 0.01 MPa Min. \pm 0.0 % Min. 0.01 N Min. 0.1 N·m
KS M 6632 : 2007	Condoms 6.3 Burst Volume and Burst Pressure 6.4 Tensile Performance 6.5 Thermal Aging Test	Min. 0.01 N Min. 0.01 MPa Min. \pm 0.0 %
KS M 6643 : 2007	Industry Protective Gloves 8.3 Tensile Test	Min. 0.01 N/cm
KS M 6685 : 2016	Gas Mask for Civil Defence 7.1.2 Rubber Materials	Min. 0.01 MPa 1 ~ 100 Min. \pm 0.0 % Min. 0.000 1

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS M 6709 : 2003	Rubber Fender 6.3 Test of Rubber layer	Min. 0.01 MPa 1 ~ 100 Min. \pm 0.0 % Min. 0.01 kN/m
KS M 6728 : 2014	Rubber Vibration Isolators for Stoppers of Railway Rolling Stock 5. Materials	Min. 0.01 MPa Min. \pm 0.0 %
KS M 6730 : 2008	Rubber Vibration Isolators for Bolster Anchors of Railway Rolling Stock 5. Materials	Min. 0.01 MPa Min. \pm 0.0 %
KS M 6750 : 2016	Automobile tyres 7.1 Tire Strength(Fracture Energy) Test 7.2 Bead Release Test	Min. 0.1 J Min. 0.1 N
KS M 6751 : 2009	Rubber tires for industrial vehicles and off the road service 6.1 Rubber Hardness Test Method 6.2 Tensile Test Method of Rubber 6.3 Aging Test Method of Rubber 6.4 Tensile Test Method of Fabric Layer 6.5 Peel Test Method	1 ~ 100 Min. 0.01 MPa Min. 0.00 % Min. 0.01 N
KS M 6752 : 2009	Rubber tires for agricultural implements and machineries 6.1 Rubber Hardness Test 6.2 Tensile Test of Rubber 6.3 Aging Test of Rubber 6.4 Tensile Test of Fabric Layer 6.5 Peel Test	1 ~ 100 Min. 0.01 MPa Min. 0.00 % Min. 0.01 N
KS M 6753 : 2014	Pneumatic tyre for motorcycles and scooters 6.1 Fracture Energy	Min. 0.1 N·m
KS M 6951 : 2016	Recycled Rubber Block 6.1 Tensile Test 6.2 Hardness 6.3 Aging Test	Min. 0.01 mm Min. 0.01 MPa 1 ~ 100 Min. \pm 0.0 %

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KS M 6958 : 2008	Water Houses for Automobiles 6.3.1 Hardness Test 6.3.2 Tensile Strength and Elongation 6.3.3 Aging Test 6.3.4 Immersion Test 6.3.5 Oil-Resistant Test	Min. 0.01 MPa 1 ~ 100 Min. \pm 0.0 %
KS M 6959 : 2016	Window Weatherstrip Rubber for Buses 7.2 Hardness Test 7.3 Tensile Strength and Elongation 7.4 Aging Test 7.5 Compression Set 7.6 Tear Strength Test 7.10 Low Brittleness Temperature Test	1 ~ 100 Min. 0.01 MPa Min. \pm 0.0 % Min. 0.01 kN/m
KS M 6960 : 2002	Vibration Isolators for Automobiles 4.1 Rubber	Min. 0.01 MPa Min. \pm 0.0 %
KS M ISO 814 : 2014	Rubber, vulcanized or thermoplastic - Determination of adhesion to metal - Two-plate method	-
ISO 188 : 2011	Rubber, vulcanized or thermoplastic - Accelerated ageing and heat resistance tests	-
ISO 812 : 2011	Rubber, vulcanized or thermoplastic - Determination of low-temperature brittleness	-
ISO 813 : 2016	Rubber, vulcanized or thermoplastic - Determination of adhesion to a rigid substrate - 90 degree peel method	-
ISO 11346 : 2014	Rubber, vulcanized or thermoplastic - Estimation of life-time and maximum temperature of use	-
ISO 22762-1 : 2010	Elastomeric seismic – protection isolators - Part 1 : Test methods	Min. 0.01 MPa Min. 0.1 % 0 ~ 100 Min. 0.001 N/mm Min. 0.01 N Min. 0.01 mm Min. 0.1 $^{\circ}$ C Min. 0.01 kN/mm Min. 0.01% Min. 0.1 N

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
ISO 22762-2 : 2010	Elastomeric seismic-protection isolators-Part 2 : Applications for bridges-Specifications	Min. 0.01 kN/mm Min. 0.01 mm Min. 0.01 % Min. 0.1 N Min. 0.1 %
ISO 22762-3 : 2010	Elastomeric seismic-protection isolators-Part 3 : Applications for buildings-Specifications	Min. 0.01 kN/mm Min. 0.01 mm Min. 0.01 % Min. 0.1 N Min. 0.1 %
ISO 3384-1 : 2001/Amd 1 : 2013	Rubber, vulcanized or thermoplastic Determination of stress relaxation in compression-Part 1 : Testing at constant temperature	Min. 0.001 %
ISO 34-1 : 2015	Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1 : Trouser, angle and crescent test pieces	Min. 0.001 kN/m
ISO 37 : 2011	Rubber, vulcanized or thermoplastic -Determination of tensile stress-strain properties	Min. 0.01 MPa Min. 0.1 %
ISO 48 : 2010	Rubber, vulcanized or thermoplastic- Determination of hardness(hardness between 10 IRHD and 100 IRHD)	0 ~ 100
ISO 7267-1 : 2008	Rubber-covered rollers - Determination of apparent hardness - Part 1 : IRDH method	0 ~ 100
ISO 7267-2 : 2008	Rubber-covered rollers-Determination of apparent hardness -Part 2 : Shore-type durometer method	0 ~ 100
ISO 8013 : 2012	Rubber, vulcanized-Determination of creep in compression or shear	Min. 0.001 Min. 0.01 mm ² /N

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
ISO 814 : 2011	Rubber, vulcanized or thermoplastic - Determination of adhesion to metal – Two - plate method	Min. 0.001 Pa
ISO 815-1 : 2014	Rubber, vulcanied or thermoplastic - Determination of compression set part 1 : atambient or elevated temperatures	Min. 0.1 %
EN 1337-3 : 2005	Structural bearings-Part 3 - Elastomeric bearings	Min. 0.1 MPa Min. 0.1 % Min. 0.1 kN/m 1 ~ 100 Min. 0.01 mm Min. 0.01 MPa Min. 0.01 %
JIS B 2401-1 : 2012	O-rings-Part 1 : O-rings	1 ~ 100 Min. 0.01 MPa Min. 0.1 %
JIS K 6251 : 2010	Rubber, vulcanized or thermoplastics - Determination of tensile stress - strain properties	Min. 0.01 MPa Min. 0.1 %
JIS K 6253-1 : 2012	Rubber, vulcanized or thermoplastic - Determination of hardness - Part 1 : General guidance	-
JIS K 6253-2 : 2012	Rubber, vulcanized or thermoplastic - Determination of hardness - Part 2 : IRHD method (hardness between 10 IRHD and 100 IRHD)	10 ~ 98
JIS K 6253-3 : 2012	Rubber, vulcanized or thermoplastic - Determination of hardness - Part 3 : Durometer method	0 ~ 100
JIS K 6254 : 2016	Rubber, vulcanized or thermoplastic - Determination of stress - strain properties	Min. 0.01 MPa Min. 0.001 MPa Min. 0.001 MPa
JIS K 6256-2 : 2013	Rubber, vulcanized or thermoplastic - Determination of adhesion test Part2 : Adhesion to a rigid substrate - 90° peel method	Min. 0.01 N/mm

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
JIS K 6256-3 : 2006	Rubber, vulcanized or thermoplastic - Determination of adhesion test Part3 : Adhesion to metal-Two-plate method	Min. 0.01 MPa
JIS K 6257 : 2010	Rubber, vulcanized or thermoplastic - Determination of heat ageing properties 6. Promote aging test(A-1) 7. Promote aging test(A-2)	Min. ± 0.0 % Min. ± 0
JIS K 6258 : 2016	Rubber, vulcanized or thermoplastic - Determination of the effect of liquids(Amendment 1)	Min. $\pm 0.0\%$ Min. ± 0
JIS K 6259-1 : 2015	Rubber, vulcanized or thermoplastics - Determination of ozone resistance	-
JIS K 6261 : 2006	Rubber, vulcanized or thermoplastic - Determination of low temperature properties	Min. 0.1 $^{\circ}\text{C}$ Min. 0.1 $^{\circ}\text{C}$
JIS K 6262 : 2013	Rubber, vulcanized or thermoplastic - Determination of compression set at ambient, elevated or low temperatures	Min. 0.1 %
JIS K 6267 : 2006/AMENDMENT1 : 2013	Rubber, vulcanized or thermoplastic - Determination of stain properties (Amendment 1)	-
ASTM D 1149-16	Standard Test Methods for Rubber Deterioration—Cracking in an Ozone Controlled Environment	-
ASTM D 1171-16	Standard Test Method for Rubber Deterioration-Surface Ozone Cracking Out doors or Chamber (Triangular Specimens)	-
ASTM D 1329-16	Standard Test Method for Evaluating Rubber Property-Retraction at Lower Temperatures (TRTest)	TRx : Min. 0.1 $^{\circ}\text{C}$
ASTM D 2137-11	Standard Test Method for Rubber Property - Brittleness Point of Flexible Polymers and Coated Fabrics	-
ASTM D 2240-15	Standard Test Method for Rubber Property -Durometer Hardness	0 ~ 100

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
ASTM D 395-16	Standard Test Methods for Rubber Property - Method B- Compression Set Under Constant Deflection in Air	Min. 0.1 %
ASTM D 4060 - 14	Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser	Min. 0.001 mg
ASTM D412-16	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension	Min. 0.01 MPa Min. 0.1 %
ASTM D 429-14	Standard Test Method for Rubber Property - Adhesion to Rigid Substrates	Min. 0.01 N/mm
ASTM D 471-16	Standard Test Method for Rubber Property - Effect of Liquids	Min. \pm 0.0% Min. \pm 0
ASTM D 545-14	Standard Test Method for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types) 7.2 Compression and Recovery 7.3 Extrusion 7.4 Boiling in Hydrochloric Acid 7.6. Water Absorption 7.7 Density	Min. 0.01 % Min. 0.01 kPa Min. 0.03 mm Min. 0.01 % Min. 0.1 kg/m ³
ASTM D 573 : 04(2015)	Standard Test Method for Rubber-Deterioration in an Air Oven	Min. \pm 0.0 %
ASTM D 6147 : 97(2014)	Test Method for Vulcanized Rubber and Thermoplastic Elastomer —Determination of Force Decay (Stress Relaxation) in Compression	Min. 0.1 %
ASTM D 624-00 (2012)	Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers	Min. 0.001 N/mm
ASTM D 746-14	Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact	Min. 0.1 °C

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
ASTM F 1276 : 99 (2009)	Standard Test Method for Creep Relaxation of Laminated Composite Gasket Materials	Min. 0.1 %
Safety · Quality indicator target industrial Safety standards Annex 23 (Notice by Agency for Technology and Standards No. 2014-0420)	Swimming goggles	-
Voluntary Safety Confirmation target industrial safety standards Annex 13 (Notice by National Agency for Technology and Standards No. 2014-0419)	Automobile tyres 7.1.1 Tire strength(Fracture energy)test 7.1.2 Minimum resistance value of bead separation	Min. 0.1 N \bar{m} Min. 0.1 N
Safety certification target industrial Safety standards Annex 2 (Notice by National Agency for Technology and Standards No. 2014-0418)	Retreaded tires(Tyres) 7.1 Appearance 7.2 Thickness of the tread 8.1 Hardness test of rubber 8.2 Tensile test of rubber 8.3 Aging test of rubber 8.4 Peel test of the rubber 8.5 Tire strength(Fracture energy)test 8.6 Bead separation test	1 ~ 100 Min. 0.01 MPa Min. 0.1 % Min. 0.01 N Min. 0.1 N \bar{m} Min. 0.1 N Min. 0.1 min.

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
KRS TR 0011-12R	Fastening Device(Joint PSC Sleeper Type)	Min. 0.01 kN/mm Min. 0.01 MPa Min. 0.1 % Min. 0.1 Ω cm Min. 0.01 MPa Min. 1 Min. 0.01 % 1 ~ 100 Min. 1 MPa Min. 0.000 1 g/cm ³ Min. 0.000 1 g/10 min (1 ~ 1 015) MΩ Min. 0.1 °C
KRS TR 0014-15R	Rail fastening system 6.2.2 A. Vertical stiffness test 6.2.2 B. Clamping force test 6.2.2 C. Longitudinal resistance test 6.2.2 E. Cyclic loading test 6.2.2 F. Electrical resistance test 6.2.2 G Corrosion resistance test	Min. 0.000 1 g/cm ³ Min. 0.1 °C (1 ~ 1 015) MΩ 1 ~ 100 Min. 0.01 MPa Min. 0.01 % Min. 0.01 kN/mm Min. 0.1 kN Min. 0.1 %
RS F 0003 : 2002	Expansion Joints for Bridges	Min. 0.1 MPa Min. 0.1 % 1 ~ 100 Min. 0.1 kN/m
RS-KTR-2010-001	Rubber seal for immersed tunnel	Min. 0.01 MPa Min. 0.1 % 0 ~ 100
RS-KTR-2010-003	Chloroprene rubber(CR) for sea-water	Min. 0.01 MPa Min. 0.1 % 0 ~ 100
RS-KTR-2010-005	Bridge expansion joints for metal	Min. 0.1 MPa Min. 0.1 % 1 ~ 100 Min. 0.1 kN/m

Korea Laboratory Accreditation Scheme

No. KT011

01.009 Rubber and Related Products

Test Method	Standard designation	Test range
RS-KTR-2010-007	Polyurethane Vibration Pad	Min. 0.01 kN/mm Min. 0.01 kN/mm Min. 0.1 Ω cm Min. 0.1 %
RS-KTR-2015-008	Elastomeric Bearings for Bridges	Min. 0.1 MPa Min. 0.1 % Min. 0.1 kN/m 1 ~ 100 Min. 0.01 mm Min. 0.01 MPa

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS C 8455 : 2016	CORRUGATED HARD POLYETHYLENE PIPE 12.1 Structure, Display and Dimension 12.3 Tensile strength 12.4 Dielectric strength	Min. 0.01 mm Min. 0.1 N/cm ²
KS F 2274 : 2002	RECOMMENDED PRACTICE FOR ACCELERATED ARTIFICIAL EXPOSURE OF PLASTICS BUILDING MATERIALS 6.3 Exposure test method by the open-flame carbon-arc lamp	-
KS F 5602 : 2016	Profile for rigid polyvinyl chloride(PVC) windows and doors 6.2 Shape and Dimensions 6.3 Mass 6.4 Measurement of color and color difference 6.5 Hardness 6.6 Tensile yield strength and Elongation 6.7 Flexural modulus 6.8 Impact strength	Min. 0.01 mm Min. 1 g Min. 0.01 0.1 ~ 130 Min. 0.01 MN/m ² , Min. 0.1 % Min. 0.1 MN/m ² Min. 0.01 kJ/m ² 0.1 °C ~ 300 °C

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	6.9 Low temperature fall drop strength 6.10 Vicat softening temperature 6.11 Heat distortion 6.12 Heating elasticity 6.13 Flame resistance 6.14 Weather resistance 6.15 Thermal cyclic test	Min. 0.01 %
KS M 3001 : 2001	TESTING METHODS FOR MECHANICAL CHARACTERISTICS OF POLYETHYLENE FILM	Min. 0.001 mm 0.1 N/cm ² Min. 0.1 % 0.1 N/cm
KS M 3015 : 2003	TESTING METHODS FOR THERMOSETTING PLASTICS 6.16 Hardness 6.17 Flexural strength and Flexural Modulus 6.18 Tensile strength 6.19 Compressive strength 6.20 Charpy impact strength 6.21 Izod impact strength 6.23 Heat-resistant 6.24.1 Method A 6.28 Specific gravity 6.35 Load deformation temperature	0.1 ~ 130 Min. 0.01 MPa Min. 1 MPa Min. 0.01 MPa Min. 0.01 kJ/m ² Min. 0.000 1 0.1 °C ~ 300 °C
KS M 3026 : 2016	TESTING METHODS FOR YELLOWNESS INDEX AND CHANGE OF YELLOWNESS INDEX OF PLASTICS	0.01 ~ 1
KS M 3357 : 2015	Plastics piping systems for hot and cold water installations — Crosslinked polyethylene(PE-X) pipes 6.2 Dimension of pipe 7. Mechanical characteristics 8. Physical and Chemical characteristics - Longitudinal reversion - Resistance to internal pressure	Min. 0.01 mm Min. 0.01 mm
KS M 3362 : 2015	Polypropylene (PP) pipes for hot and cold water installations	Min. 0.01 mm Min. 0.1 % Min. 0.01 g/10 min.

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	7.2 Dimension of pipe 8. Mechanical characteristics 12.1 High-temperature dimensional stability test 12.2 Resistance to internal pressure test 12.3 Impact test 12.4 Melt mass-flow rate	
KS M 3363 : 2015	Plastics piping systems for hot and cold water installations-Polybutylene (PB) pipes 6.2 Dimension of pipe 7. Mechanical characteristics 8. Physical and Chemical characteristics - Longitudinal reversion - Resistance to internal pressure - Melt mass-flow rate	Min. 0.01 mm Min. 0.1 % Min. 0.01 g/10 min.
KS M 3401 : 2015	Unplasticized poly(vinyl chloride)(PVC-U) pipes for water supply 10.2 Appearance and shape 10.3 Dimensions 10.4 Tensile yield strength test 10.5 Hydrostatic test 10.6 Flattening test 10.7 Impact test 10.8 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. 0.1 °C
KS M 3402 : 2016	Rigid poly(vinyl chloride)(PVC-U) pipe fittings for water supply 10.1 Appearance and shape 10.2 Dimensions 10.3 Tensile yield strength test 10.4 Hydrostatic test 10.5 Flattening test 10.6 Impact test 10.7 Vicat softening temperature test 10.9 Resistance to internal pressure test	Min. 0.01 mm Min. 0.1 Mpa Min. 0.1 °C

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M 3404 : 2016	Unplasticized poly(vinyl chloride)(PVC-U) pipes for general service 10.2 Appearance and shape 10.3 Dimensions 10.4 Tensile yield strength test 10.5 Hydrostatic test 10.6 Joint hydrostatic test 10.7 Flattening test 10.8 Immersion test 10.9 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. -0.01 mg/cm ² Min. 0.1 °C
KS M 3407 : 2003	POLYETHYLENE PIPE FOR GENERAL PURPOSE 5. Dimensions 8.1 Tensile test 8.2 Hydrostatic test 8.3 Immersion test	Min. 0.01 mm Min. 0.01 N/cm ² Min. -0.01 mg/cm ²
KS M 3408-2 : 2015	Plastics piping systems for water supply - Polyethylene(PE) - Part 2 : Pipes 6.1 Measurement of Dimension 6.2 Average outside diameter and circle of degree 6.3 Wall thickness and tolerances 7.2 Requirements 8.2 Requirements Elongation at break Longitudinal reversion Melt mass-flow rate(MFR)	Min. 0.01 mm Min. 0.1 %
KS M 3408-3 : 2015	POLYETHYLENE PIPE FITTINGS FOR WATER WORKS SERVICE 6. Geometric characteristics 7.3 Requirements 7.5 Performance requirements - Short-term internal pressure test 8.2 Requirements - Melt mass-flow rate(MFR)	Min. 0.01 mm Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M 3410 : 2016	Unplasticized poly(vinyl chloride)(PVC-U) pipe fittings for drain 10.1 Appearance and shape 10.2 Dimensions 10.3 Tensile yield strength test 10.4 Hydrostatic test 10.5 Flattening test 10.6 Immersion test 10.7 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. -0.01 mg/cm ² Min. 0.1 °C
KS M 3413 : 2016	COEXTRUDED POLY(VINYL CHLORIDE)(PVC) PLASTIC PIPE WITH A CELLULAR CORE 9.2 Appearance, shape and color 9.3 Dimensions 9.4 Flattening test 9.5 Falling weight impact test 9.6 Heat resistance test 9.7 Dielectric strength test 9.8 Flame resistance test 9.9 Coefficient of friction test 9.10 Chemical resistance test 9.11 Acetone immersion test	Min. 0.01 mm Min. 0.1 N Min. 0.1 % Min. 0.001
KS M 3414 : 2015	Plastics piping systems for hot and cold water installations - Chlorinated poly(vinylchloride) (PVC-C) pipes 6.2 Dimensions of pipe 7.1 Internal pressure test 7.2 Impact test 7.3 Tensile strength 8.Physical and Chemical characteristics - Vicat softening temperature(VST) - Longitudinal reversion - Resistance to internal pressure test	Min. 0.01 mm Min. 0.1 % Min. 0.1 MPa Min. 0.1 °C,

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M 3415 : 2015	Plastics piping systems for hot and cold water installations - Chlorinated poly(vinylchloride) (PVC-C) fittings 6.2 Dimensions of fittings 8. Physical characteristics - Vicat softening temperature(VST) - Longitudinal reversion	Min. 0.01 mm Min. 0.1 °C, Min. 0.1 %
KS M 3500-1 : 2015	Structured-wall polyethylene(PE) pipes for non-pressure underground drainage and sewerage - Part 1 : Double-Wall Pipe 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress) 10.15 Elongation after weathering 10.16 Joint tightness test 1) Pressure test	Min. 0.01 mm Min. 0.1 kN/m ² Min. less than 0.1 Min. 0.01 g/10 min. Min. 0.000 1 g/cm ³ Min. 0.1 MPa Min. 1 min Min. 0.1 %
KS M 3500-2 : 2015	Structured-wall polyethylene(PE) pipes for non-pressure underground drainage and sewerage - Part 2 : Multi-Wall Pipe 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density	Min. 0.01 mm Min. 0.01 kN/m ² Min. 0.1 Min. 0.01 g/10 min. Min. 0.000 1 g/cm ³ Min. 0.1 MPa Min. 1 min Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress) 10.15 Elongation after weathering 10.16 Joint tightness test 1) Pressure test	
KS M 3500-3 : 2015	Structured-wall polyethylene(PE) pipes for non-pressure underground drainage and sewerage - Part 3 : Seamless Pipe 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress) 10.15 Elongation after weathering 10.16 Joint tightness test 1) Pressure test	Min. 0.01 mm Min. 0.01 kN/m ² Min. 0.1 Min. 0.01 g/10 min. Min. 0.000 1 g/cm ³ Min. 0.1 MPa Min. 1 min Min. 0.1 %
KS M 3500-4 : 2015	Structured-wall polyethylene(PE) pipes for non-pressure underground drainage and sewerage - Part 4 : Filled-Wall Pipe 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress) 10.15 Elongation after weathering 10.16 Joint tightness test 1) Pressure test	Min. 0.01 mm Min. 0.01 kN/m ² Min. 0.1 Min. 0.01 g/10 min. Min. 0.000 1 g/cm ³ Min. 0.1 MPa Min. 1 min Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M 3514 : 2016	Polyethylene (PE) pipes for the supply of gaseous fuels 6. Dimensions 7. Mechanical characteristics - Resistance to internal pressure test - Elongation at break 8. Physical characteristics - Density - Melt mass-flow rate - Heat expansion	Min. 0.01 mm Min. 0.1 % Min. 0.1 kg/m ³
KS M 3600 : 2016	Structured-wall polyvinyl chloride(PVC) pipes for non-pressure underground drainage and sewerage-Double-wall corrugated pipe and rib pipe 4.2 Characteristics of PVC compound - Density - Flexural modulus(FM) 4.3 Physical characteristics of polyvinyl chloride compound 9.2 Appearance 9.3 Dimensions 9.4 Ring stiffness test 9.5 Ring flexibility test 9.6 Falling weight impact test 9.7 Creep ratio test 9.8 Tensile yield strength test 9.9 Vicat softening temperature test 9.10 Acetone immersion test	Min. 0.000 1 g/cm ³ Min. 0.1 MPa Min. 0.01 mm Min. 0.01 kN/m ² Min. 0.1 °C
KS M 3700 : 2009	POLYVINYL ACETATE EMULSION ADHESIVES FOR WOODS 6.1 Appearance 6.5 Ash 6.6 Film-forming characteristics 6.7 Wood stain resistance 6.9 Adhesive force	Min. 0.1 N/cm ²
KS M 3700-1 : 2016	Structured-wall polypropylene(PP) pipes for non-pressure underground drainage and sewerage - Part 1 : Double-Wall Pipe 10.2 Appearance 10.3 Dimensions	Min. 0.01 mm Min. 0.01 kN/m ² Min. 0.01 g/10 min Min. 0.001 g/cm ³ Min. 0.1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress)	Min. 1 min
KS M 3700-2 : 2016	Structured-wall polypropylene(PP) pipes for non-pressure underground drainage and sewerage - Part 2 : Multi-Wall Pipe 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress)	Min. 0.01 mm Min. 0.1 kN/m ² Min. 1 min Min. 0.01 g/10 min Min. 0.000 1 g/cm ³ Min. 0.1 MPa
KS M 3700-3 : 2016	Structured-wall polypropylene(PP) pipes for non-pressure underground drainage and sewerage - Part 3 : Corrugate Pipe 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress)	Min. 0.01 mm Min. 0.1 kN/m ² Min. 1 min Min. 0.01 g/10 min Min. 0.000 1 g/cm ³ Min. 0.1 MPa
KS M 3700-4 : 2016	Structured-wall polypropylene(PP) pipes for non-pressure underground drainage and sewerage - Part 4 : Seamless Pipe	Min. 0.01 mm Min. 0.1 kN/m ² Min. 1 min

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact test 10.7 Creep ratio 10.8 Melt mass-flow rate 10.9 Density 10.10 Tensile yield strength 10.13 NCLS (Notched Constant Ligament Stress)	Min. 0.01 g/10 min Min. 0.000 1 g/cm ³ Min. 0.1 MPa
KS M 3802 : 2014	FLOOR COVERING-PVC 4.1 Appearance 7.5 Dimensions and squareness of floor tiles 7.6 Dimensions of floor sheet 7.7 Indentation 7.8 Rate of residual indentation test 7.9 Length changes by heating test 7.10 Length changes by water absorption 7.11 Loss on heating test 7.12 Pollution test	Min. 0.001 mm Min. 0.01 mm Min. 0.01 % Min. 0.001 %
KS M 3805 : 2004	POLYVINYL CHLORIDE WATER STOP 9.3 Specific gravity 9.4 Hardness 9.5 Tensile strength and tensile strain 9.7 Chemical resistance 9.8 Flexible temperature	Min. 0.000 1 1 ~ 100 Min. 0.01 MPa Min. 1 %
KS M 3808 : 2011	FOAMED POLYSTYRENE FOR THERMAL INSULATION 6.4 Appearance 6.5 Dimensions 6.6 Density 6.7 Thermal conductivity 6.8 Flexural strength 6.9 Compressive strength 6.10 Absorbed amount 6.11 Combustibility	Min. 0.01 mm Min. 0.1 kg/m ³ Min. 0.015 W/(m•K) Min. 0.1 N Min. 0.1 N/cm ² Min. 0.01 g/100 cm ²

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M 3809 : 2006	THERMAL INSULATION MATERIAL MADE OF RIGID URETHANE FOAM 5.4 Appearance 5.5 Dimensions 5.6 Bulk density 5.7 Thermal conductivity 5.8 Flexural strength 5.9 Compressive strength 5.10 Absorbed amount 5.11 Combustibility	Min. 0.01 mm Min. 0.1 kg/m ³ Min. 0.015 W/(m•K) Min. 0.1 N/cm ² Min. 0.1 N/cm ² Min. 0.01 g/100 cm ²
KS M 3862 : 2001	POLYETHYLENE FOAM FOR THERMAL INSULATION 5.4. Appearance 5.5. Dimensions 5.6 Thermal conductivity 5.7 Tensile strength 5.8 Absorbed amount	Min. 0.01 mm Min. 0.015 W/(m•K) Min. 0.1 N/cm ² Min. 0.001 g/100 cm ²
KS M ISO 1133-1 : 2012	Plastics — Determination of the melt mass-flow rate (MFR) and melt volumeflow rate (MVR) of thermoplastics — Part 1: Standard method Procedures A : Mass Measurement Method	Min. 0.000 1 g/10 min.
KS M ISO 11339 : 2013	Adhesives - T-peel test for flexible-to-flexible bonded assemblies	Min. 0.01 N/mm
KS M ISO 13968 : 2015	Plastics piping and ducting systems -Thermoplastics pipes-Determination of ring flexibility	-
KS M ISO 14782 : 2008	Plastics-Determination of haze for transparent materials 6.5.2 Measurement method A 7.4 Haze	0.1 ~ 100
KS M ISO 178 : 2012	Plastics-Determination of flexural properties	Min. 0.01 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M ISO 179-1 : 2012	Plastics-Determination of Charpy impact properties-Part 1:Non-instrumented impact test	Min. 0.01 kJ/m ²
KS M ISO 180 : 2012	Plastics-Determination of Izod impact strength	Min. 0.01 kJ/m ²
KS M ISO 2039-2 : 2008	Plastics-Determination of hardness-Part 1:Ball indentation method	0.1 ~ 130
KS M ISO 306 : 2015	Plastics-Thermoplastics materials-Determination of Vicat softening temperature(VST)	0.1 °C ~ 300 °C
KS M ISO 3126 : 2016	Plastics piping system-Plastics piping components-Measurement and determination of dimensions	Min. 0.01 mm
KS M ISO 4892-2 : 2012	Plastics-Methods of exposure to laboratory light sources-part 2:Xenon-arc sources	-
KS M ISO 527-1 : 2012	Plastics-Determination of tensile properties-Part 1:General principles Except Poisson ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
KS M ISO 527-2 : 2013	Plastics-Determination of tensile properties-Part 2:Test conditions for moulding and extrusion plastics Except Poisson ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
KS M ISO 527-3 : 2016	Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets Except 6.1.2 Figure 4-Type 4 Specimen	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
KS M ISO 527-4 : 2002	Plastics - Determination of tensile properties - Part 4: Test conditions for isotropic and orthotropic fibre-reinforced plastic composites Except Poisson ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
KS M ISO 527-5 : 2012	Plastics-Determination of tensile properties-Part 5: Test conditions for unidirectional fibre-reinforced plastic	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	composites Except Poisson ratio	
KS M ISO 604 : 2013	Plastics-Determination of compressive properties	Min. 0.01 MPa Min. 1 MPa
KS M ISO 7214 : 2013	CELLULAR — POLYETHYLENE — METHODS OF TEST 7.1 Bulk density 7.3 Compressive strain 7.4 Tensile strength and elongation	Min. 0.001 kg/m ³ Min. 0.1 % Min. 0.1 kPa, 0.1 %
KS M ISO 75-1 : 2015	Plastics-Determination of temperature of deflection under load-Part 1:General test method	0.1 °C ~ 300 °C
KS M ISO 75-2 : 2013	Plastics-Determination of temperature of deflection under load-Part 3:Plastics and ebonite	0.1 °C ~ 300 °C
KS M ISO 8510-2 : 2012	Adhesives-Peel test for a flexible-bonded-to-rigid test specimen assembly-Part 2:180° peel	Min. 0.01 N/mm
KS M ISO 868 : 2016	Plastics and ebonite — Determination of indentation hardness by means of a durometer (shore hardness)	0 ~ 100
KS M ISO 9967 : 2016	Thermoplastics pipes-Determination of creep ratio	Min. 0.1
KS M ISO 9969 : 2016	Thermoplastics pipes-Determination of ring stiffness	Min. 0.001 kN/m ²
KS T 1028 : 2009	TESTING METHODS OF PRESSURE SENSITIVE ADHESIVE TAPES AND SHEETS 5. Measurement of Thickness 6. Measurement of width 7. Measurement of length	Min. 0.001 mm Min. 0.01 mm Min. 0.1 mm Min. 0.01 N/10mm, 0.1 % Min. 0.001

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	8. Tensile strength and elongation 10.4 Measurement of 180° peel adhesion (Speed of Application:5mm/s) 13. Retention	N/10mm Min. 0.01 mm, 0.1 min
KS T 1046 : 2016	PRESSURE SENSITIVE ADHESIVE POLYPROPYLENE TAPES FOR PACKAGING 7.2 Appearance 7.3 Dimensions 7.4 Adhesiveness((a) Normal state) 7.6 Retention	Min. 0.001 mm Min. 0.001 N/cm Min. 0.1 mm
KS T 1049 : 2009	PRESSURE SENSITIVE ADHESIVE FILMS FOR PRINTING 7.4 Appearance 7.5 Dimensions 7.7 Adhesiveness ((a) Normal state) 7.8 Retention ((a) Normal state)	Min. 0.001 mm Min. 0.000 1 N/10mm Min. 0.1 mm
KS T 1050 : 2012	PRESSURE SENSITIVE ADHESIVE PAPERS FOR PRINTING 7.2 Appearance 7.3 Dimensions 7.5.1 Normal state 7.6.1 Normal state	Min. 0.001 mm Min. 0.001 N/cm Min. 0.1 mm
KS T 1055 : 2012	PRESSURE SENSITIVE ADHESIVE PAPER TAPES 7.2 Appearance 7.3 Dimensions 7.4.1 Normal state 7.5 Tensile strength and elongation	Min. 0.001 mm Min. 0.001 N/cm Min. 0.01 N/cm. 0.1 %
KS T 1056 : 2011	PRESSURE SENSITIVE ADHESIVE CLOTH TAPES FOR PACKAGING 6.2 Adhesiveness((a) Normal state) 6.7 Retention 6.9 Dimensions 6.10 Appearance	Min. 0.01 N/cm Min. 0.01 mm Min. 0.001 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS T 1057 : 2016	PRESSURE SENSITIVE ADHESIVE POLYVINYL CHLORIDE TAPES FOR PACKAGING 7.2 Appearance 7.3 Dimensions 7.4 Adhesiveness((a) Normal state) 7.5 Tensile strength and elongation	Min. 0.001 mm Min. 0.001 N/cm Min. 0.1 N/cm, 0.1 %
KS T 1058 : 2012	PRESSURE SENSITIVE ADHESIVE CELLOPHANE TAPES 6.2 Appearance 6.3 Dimensions 6.4.1 Normal state	Min. 0.001 mm Min. 0.001 N/cm
KS T 1059 : 2016	PRESSURE SENSITIVE ADHESIVE DOUBLE COATED TAPES 7.4 Appearance 7.5 Dimensions 7.7 Adhesiveness((a)Normal state (180° peel adhesion) 7.8 Retention((a)Normal state)	Min. 0.001 mm Min. 0.001 N/10mm Min. 0.1 mm
KS T 1060 : 2006	PRESSURE SENSITIVE ADHESIVE POLYVINYL CHLORIDE TAPES FOR CORROSION PROTECTION 6.2 Appearance 6.3 Dimensions 6.5 Adhesiveness((a)Normal state)	Min. 0.001 mm Min. 0.1 N/10mm
KS T 1093 : 2016	POLYETHYLENE FILMS FOR PACKAGING 8.4 Appearance 8.5 Thickness measurement method of film 8.6 Tensile strength and elongation 8.7 Tear strength 8.8 Moisture permeability	Min. 0.001 mm Min. 0.1 N/cm ² Min. 0.1 % Min. 0.1 N/cm Min. 0.01 g/m ² •24h (Standard 0.1mm thick)
KS C 8431 : 2014	Rigid unplasticized polyvinyl chloride (UPVC) conduits 9. Dimensions	0.01 mm Min.0.1%,

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	10.1 Decompression Test 10.2 Impact Test 10.3 Tensile Test 10.4 Insulation Resistance and Dielectric Strength 10.5 Heat Distortion Resistance Test 10.6 Flame-Resistant(Self-Extinguishing) Test	Min. 0.1 MPa Min. 0.1 MΩ
KS C 8454 : 2006	Pliable Plastics Conduits 9. Dimensions 10.2 Bending test 10.3 Compression Test 10.4 Impact Test 10.5 Flexing test 10.6 Thermal Properties 10.7 Flame-Resistant(Self-Extinguishing) Test 10.8 Dielectric Strength 10.9 Insulation Resistance	Min. 0.01 mm Min. 0.1 % Min. 0.1 MΩ
KS F 4740 : 2016	Thermosetting lplastic ceiling tile 5.3 Dimensions 5.4 Squareness 5.5 Tensile Strength 5.6 Hardness 5.8 Izod Impact Strength	Min. 0.01 mm Min. 1/1 000 Min. 0.1 MPa Min. 1 Min. 0.1 J/m
KS F 4802 : 2011	Glassfiber-reinforced plastic corrugated sheets 4. Shape and Dimensions	Min. 0.01 mm
KS M 3305 : 2009	Liquid Unsaturated Polyester Resins for Fiber Reinforced Plastics 6.2.4 Barcol Hardness 6.2.5 Absorption 6.2.6 Boiling Water Absorption 6.2.7 Load Deflection Temperature 6.2.9 Resistance to Flame 6.2.10 Tensile Elongation	1 ~ 100 Min. 0.1% Min. 1 °C 1~100 Min. 0.1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	6.3.3 Barcol Hardness 6.3.4 Flexural strength and Flexural Modulus 6.3.5 Tensile Strength 6.3.6 Compressive Strength	
KS M 3337 : 2009	Laminated Thermosetting Sheets 8.4 Method 8.10 Flexural strength 8.11 Compressive Strength 8.12 Izod Impact Strength 8.18 Specific Gravity	Min. 0.01 mm Min. 0.1 N/mm ² Min. 0.01 J/cm Min. 0.01
KS M 3368 : 2015	High Impact Acrylonitrile-Butadiene-Styrene(ABS) Fitting for Water Works Service 6.1 Dimensional Inspection 6.2 Tensile Test 6.3 Hydrostatic Test 6.4 Falling Weight Impact Test 6.6 Softening Temperature Test 6.7 Specific Gravity Test	Min. 0.01 mm Min. 0.001 MPa Min. 0.1 °C Min. 0.01 g/cm ³
KS M 3370 : 2015	Plastics piping systems for water supply - Glass reinforced thermosetting plastics(GRP) based on unsaturated polyester(UP) resin - Pressure and non-pressure piping system 5.2.1. Initial ring stiffness	Min. 0.1 N/m ²
KS M 3502 : 2016	Rigid Polyvinyl Chloride Corrugated Sheet 5. Shape, Dimensions and Tolerances	Min. 0.01 mm
KS M 3515 : 2016	Polyethylene Pipe-Fittings for The Supply of Gaseous Fuels 7 Dimensions of Fittings 9 Physical Performance - Melt Index	Min. 0.01 mm Min. 0.1 %
KS M 3701 : 2007	Urea Resin Adhesives for Wood 6.6.1 Compression Shear Strength(State) 6.6.2 Compression Shear Strength(in Hot Water)	Min. 1 N/cm ²

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
KS M 3803 : 2009	Laminated Thermosetting High-Pressure Decorative Sheets 8. Test KS M 3332 4.12 Flexural Strength, Rupture Flexural and Flexural Modulus KS M 3332 4.13 Tensile Strength	Min. 1 MPa Min. 0.01 mm Min. 0.01 GPa
KS M 3811 : 2016	Polymethyl Methacrylate Sheets 7.4 Width and Length 7.5 Thickness 7.9 Tensile Strength 7.11 Rockwell Hardness 7.12 Load Deflection Temperature 7.13 Vicat Softening Temperature 7.14 Dimensional Change upon Heating	Min. 0.1 mm Min. 1 MPa 1 ~ 130 Min. 1 °C Min. 1 %
KS M ISO 1209-1 : 2012	Cellular plastics, rigid-Flexural tests-Part 1: Bending test	Min. 0.1 N
KS M ISO 1209-2 : 2012	Cellular plastics, rigid-Flexural tests-Part 2: Determination of flexural properties	Min. 0.1 kPa
KS M ISO 1922 : 2013	Rigid cellular plastics - Determination of shear strength	Min. 0.1 kPa
KS M ISO 2896 : 2010	Rigid cellular plastics - Determination of water absorption	Min. 0.01 %
KS M ISO 844 : 2012	Rigid cellular plastics - Determination of compression properties	Min. 0.1 kPa Min.0.1 %
Voluntary Safety Confirmation target industrial safety standards Annex 67 (Notice by National Agency for Technology and Standards No. 2015-0693)	Indoor Floorcoverings -Part 1 Polyvinyl Chloride Floorcoverings 4.1 Appearance 4.3 Surface Coating Thickness 5 Mechanic · Physical Properties	0 μm ~ 1 000 μm Min. 0.001 mm Min. 0.001 %

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
SPS-KPPS M 103-0779 : 2009	Unplasticized poly(vinyl chloride)(PVC-U) pipes with rubber ring type joints for water supply 9.2 Appearance and shape 9.3 Dimensions 9.4 Tensile yield strength test 9.5 Hydrostatic test 9.6 Flattening test 9.7 Vicat softening temperature test 9.8 Resistance to internal pressure test	Min. 0.01 mm Min. 0.1 MPa Min. 0.1 °C
SPS-KPPS M 104-0780 : 2009	Unplasticized poly(vinyl chloride)(PVC-U) pipe fittings with rubber ring type for water supply 9.2 Appearance and shape 9.3 Dimensions 9.4 Tensile yield strength test 9.5 Hydrostatic test 9.6 Flattening test 9.7 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. 0.1 °C
SPS-KPPS M 107-0783 : 2009	High impact unplasticized poly(vinyl chloride)(PVC-U) pipes with rubber ring type joints for water supply 9.2 Appearance and shape 9.3 Dimensions 9.4 Tensile yield strength 9.5 Hydrostatic test 9.6 Flattening test 9.7 Impact Test 9.8 Vicat softening temperature test 9.9 Resistance to internal pressure test	Min. 0.01 mm Min. 0.1 MPa Min. 0.1 °C
SPS-KPPS M 108-0784 : 2009	High impact unplasticized poly(vinyl chloride)(PVC-U) pipe fittings with rubber ring type for water supply	Min. 0.01 mm Min. 0.1 MPa Min. 0.1 °C

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	9.1 Appearance and shape 9.2 Dimensions 9.3 Tensile yield strength test 9.4 Hydrostatic test 9.5 Flattening test 9.6 Impact Test 9.7 Vicat softening temperature test	
SPS-KPPS M 301-0786 : 2009	Unplasticized poly(vinyl chloride)(PVC-U) pipes for sewerage 10.2 Appearance and shape 10.3 Dimensions 10.4 Tensile yield strength test 10.5 Hydrostatic test 10.6 Flattening test 10.7 Vicat softening temperature test 10.8 Negative pressure test 10.9 Immersion test	Min. 0.01 mm Min. 0.1 MPa Min. 0.001 kN/m Min. 0.1 °C Min. -0.01 mg/cm ²
SPS-KPPS M 302-0787 : 2013	Unplasticized poly(vinyl chloride)(PVC-U) pipe fittings for sewerage 10.2 Appearance and shape 10.3 Dimensions 10.4 Tensile yield strength test 10.5 Hydrostatic test 10.6 Flattening test 10.7 Immersion test 10.8 Vicat softening temperature test 10.9 Negative pressure test	Min. 0.01 mm Min. 0.1 MPa Min. -0.01 mg/cm ² Min. 0.1 °C
SPS-KPPS M 303-0788 : 2013	Unplasticized poly(vinyl chloride)(PVC-U) inspection chambers for sewerage 11.2 Appearance and shape 11.3 Dimensions 11.4 Tensile yield strength test 11.5 Load test 11.6 Negative pressure test 11.7 Immersion test 11.8 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. -0.01 mg/cm ² Min. 0.1°C

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
SPS-KPPS M 304-0789 : 2013	Unplasticized poly(vinyl chloride)(PVC-U) covers and inside covers for sewerage 11.2 Appearance and shape 11.3 Dimensions 11.4 Tensile yield strength test 11.5 Load test 11.6 Immersion test 11.7 Water-tightness test 11.8 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. -0.01 mg/cm ² Min. 0.1 °C
SPS-KPPS M 305-0790 : 2013	Unplasticized poly(vinyl chloride)(PVC-U) small size diameter manholes for sewerage 11.2 Appearance and shape 11.3 Dimensions 11.4 Tensile yield strength test 11.5 Load test 11.6 Negative pressure test 11.7 Immersion test 11.8 Vicat softening temperature test	Min. 0.01 mm Min. 0.1 MPa Min. -0.01 mg/cm ² Min. 0.1 °C
SPS-KPPS M 306-0791 : 2013	High impact unplasticized poly(vinyl chloride)(PVC-U) pipes for sewerage 10.2 Appearance, shape and color of pipe 10.3 Dimensions 10.4 Tensile yield strength test 10.5 Hydrostatic test 10.6 Flattening test 10.7 Vicat softening temperature test 10.8 Falling weight impact test 10.9 Negative pressure test 10.10 Immersion test	Min. 0.01 mm Min. 0.1 MPa Min. 0.001 kN/m Min. 0.1 °C Min. 0.01 mg/cm ²

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
SPS-KPS M 1000-0805 : 2008	Synthetic(PE) Bag for Garbage Separation 8.4 Appearance 8.5 Thickness Measurement 8.6 Measure the width and height 8.7 Tensile strength and elongation 8.8 Tear strength after notch 8.9 Joint state	Min. 0.001 mm Min. 0.01 N/mm ² Min. 0.1 % Min. 0.01 N/mm
SPS-KPS M 1001-0806 : 2016	Polyethylene Films for agriculture 7.4 Appearance 7.5 Film thickness measurement method 7.6 Tensile strength and elongation test method 7.7 Tear Strength Test Method	Min. 0.001 mm Min. 0.1 N/cm ² Min. 0.1 % Min. 0.1 N
KPS M 1011 : 1999	Biodisintegrable aliphatic polyester/PE film for garbage bag 7.4 Film appearance 7.5 Film thickness measurement method 7.6 Test Method Tensile Strength and Elongation 7.7 Tear strength 7.9 Joint state test	Min. 0.001 mm Min. 0.01 N/cm ² Min. 0.1 % Min. 0.01 N/mm
SPS-KPS M 2010-0831 : 2007	Polyethylene Pipes for Water Supply 7.1 Appearance and shape 7.2 Dimensions 7.3 Internal pressure test 7.4 Tensile test and elongation 7.9 NCLS 7.10 Melt mass-flow rate(MFR)	Min. 0.01 mm Min. 0.01 N/mm ² (0.1 %) Min. 0.1 min Min. 0.1 %
KPS M 2012 : 2001	Polyethylene Pipe for General Purpose 4 Dimensions 7.1 Tensile test 7.2 Hydrostatic test 7.3 Immersion test	Min. 0.01 mm Min. 0.01 N/mm ² Min. 0.01 g/m ² Min. 0.01 g/10min

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	7.5 Resistance to internal pressure test 7.7 Melt index(MI)	
SPS-KPS M 2016-0836 : 2007	Polyethylene Pressure Pipes 7.1 Appearance and shape 7.2 Dimensions 7.3 Internal pressure test 7.4 Tensile test and elongation 7.9 NCLS 7.10 Melt mass-flow rate(MFR)	Min. 0.01 mm Min. 0.01 N/mm ² (0.1 %) Min. 0.1 min Min. 0.001 %
SPS-KPS M 2009-0830 : 2016	Structured Wall Polyethylene Sewer and Drainage Pipes 10.2 Appearance 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility test 10.6 Impact Test 10.7 Creep ratio 10.8 Density 10.9 Melt mass-flow rate 10.10 Tensile yield strength 10.14 NCLS 10.15 Joint Water-tightness test	Min. 0.01 mm Min. 0.1 kN/m ² Min. 0.1 Min. 0.000 1 g/cm ³ Min. 0.001 g/10 min. Min. 0.01 N/mm ² Min. 1 min
SPS-KPS M 2017-0837 : 2012	Fittings for polyethylene sewer and drainage pipes 9.1 Color and Appearance 9.2 Dimensions 9.3 Tensile yield strength 9.7 NCLS 9.8 Vicat softening temperature 9.10 Spring hardness 9.11 Tensile test 9.12 Permanent elongation rate 9.13 Heat aging test 9.16 Joint Water-tightness test	Min. 0.01 mm Min. 0.01 MPa Min. 0.1 min Min. 0.1 °C Min. 0.1 Hs Min. 0.01 MPa Min. 1 % Min. -1 % Min. 0.1 Hs

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
SPS-KPS M 2018-1574 : 2012	Sewer and Drainage Polyethylene Pipe with Wave in the Profile 10.2 Appearance and color 10.3 Dimensions 10.4 Ring stiffness test 10.5 Ring flexibility(Flattening)test 10.6 Impact Test 10.7 Density 10.8 Tensile yield strength test 10.13 Melt mass-flow rate 10.14 Weather resistance-Elongation test after Expose 10.15 NCLS 10.16 Creep ratio	Min. 0.01 mm Min. 0.1 kN/m ² Min. 0.000 1 g/cm ³ Min. 0.01 MPa Min. 0.001 g/10 min Min. 0.1 % Min. 1 min Min. 0.1
ISO 1209-1 : 2007	Rigid cellular plastics—Determination of flexural properties—Part 1 : Basic bending test	Min. 0.1 N
ISO 1209-2 : 2007	Rigid cellular plastics – Determination of flexural properties – Part2 : Determination of flexural strength and apparent flexural modulus of elasticity	Min. 0.1 kPa
ISO 1922 : 2012	Rigid cellular plastics—Determination of shear strength	Min. 0.1 kPa
ISO 2896 : 2001	Rigid cellular plastics—Determination of water absorption	Min. 0.01 %
ISO 844 : 2014	Rigid cellular plastics—Determination of compression properties	Min. 0.1 kPa Min. 0.1 %
ISO 1133-1 : 2011	Plastics-Determination of the melt mass-flow rate(MFR) and melt volume-flow rate(MVR) of thermoplastics – Part1 : Standard method Procedure A(Melt mass-flow rate(MFR))	Min. 0.000 1 g/10 min (MFR) Min. 0.000 1 cm ³ /10 min(MVR)

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
ISO 1133-2 : 2011	Plastics-Determination of the melt mass-flow rate(MFR) and melt volume-flow rate (MVR) of thermoplastics-Part2: Method for materials sensitive to time-temperature history and/or moisture Procedure A(Melt mass-flow rate(MFR))	Min. 0.000 1 g/10 min
ISO 1167-1 : 2006	Thermoplastics pipes, fittings and assemblies for the conveyance of fluids - Determination of the resistance to internal pressure - Part 1: General method	-
ISO 1167-2 : 2006	Thermoplastics pipes, fittings and assemblies for the conveyance of fluids - Determination of the resistance to internal pressure - Part 2: Preparation of pipe test pieces	-
ISO 1167-3 : 2007	Thermoplastics pipes, fitting and assemblies for the conveyance of fluids-Determination of the resistance to internal pressure-Part 3: Preparation of components	-
ISO 1167-4 : 2007	Thermoplastics pipes, fittings and assemblies for the conveyance of fluids - Determination of the resistance to internal pressure - Part 4: Preparation of assemblies	-
ISO 1183-1 : 2012	Plastics-Method for determining the density of non-cellular plastics -Part1 : Immersion method, liquid pycnometer method and titration method Method A (Immersion method)	Min. 0.000 1
ISO 13968 : 2008	Plastics piping and ducting systems- Thermoplastics pipes-Determination of ring flexibility	-
ISO 178 : 2010 /Amd 1 : 2013	Plastics-Determination of flexural properties	Min. 0.01 MPa Min. 1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
ISO 179-1 : 2010	Plastics-Determination of Charpy impact properties Part 1:Non-instrument impact test	Min. 0.01 kJ/m ²
ISO 180 : 2000 /Amd 2 : 2013	Plastics-Determination of Izod impact strength	Min. 0.01 kJ/m ²
ISO 2039-2 : 1987	Plastics-Determination of hardness-Part2: Rockwell hardness	0.1 ~ 130
ISO 2505 : 2005	Thermoplastics pipes-Longitudinal reversion -Test method and parameters	Min. 0.1 %
ISO 306 : 2013	Plastics-Thermoplastics materials-Determination of Vicat softening temperature(VST)	0.1 °C ~ 300 °C
ISO 3126 : 2005	Plastics piping systems-Plastics components -Determination of dimensions	Min. 0.01 mm
ISO 527-1 : 2012	Plastics-Determination of tensile properties- Part1: General principles Except Possion's Ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
ISO 527-2 : 2012	Plastics-Determination of tensile properties- Part2:Test conditions for moulding and extrusion plastics Except Possion's Ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
ISO 527-3 : 1995 /Cor2 : 2001	Plastics-Determination of tensile properties- Part3:Test conditions for films and sheets Except specimen type 4	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
ISO 527-4 : 1997	Plastics-Determination of tensile properties - Part 4:Test conditions for isotropic and orthotropic fibre - reinforced plastic composites Except Possion's Ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
ISO 527-5 : 2009	Plastics-Determination of tensile properties - Part 5:Test conditions for unidirectional fibre-reinforced plastic composites Except Possion's Ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
ISO 604 : 2002	Plastics-Determination of Compressive properties	Min. 0.01 MPa Min. 1 MPa
ISO 6259-1 : 2015	Thermoplastics pipes - Determination of tensile properties - Part 1: General test method	Min. 0.1 MPa
ISO 6259-2 : 1997	Thermoplastics pipes - Determination of tensile properties - Part 2: Pipes made of unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly (vinyl chloride) (PVC-C) and high-impact poly (vinyl chloride) (PVC-HI)	Min. 0.1 MPa
ISO 6259-3 : 2015	Thermoplastics pipes - Determination of tensile properties - Part 3: Polyolefin pipes	Min. 0.1 MPa
ISO 75-1 : 2013	Plastics-Determination of temperature of deflection underload - Part1 : General tets method Optional(edgewise) position	0.1 °C ~ 300 °C
ISO 75-2 : 2013	Plastics-Determination of temperature of deflection underload-Part2:Plastic sand ebonite	0.1 °C ~ 300 °C
ISO 868 : 2003	Plastic and ebonite-Determination of indentation hardness by means of a durometer(Shore hadness)	0 ~ 100
ISO 9969 : 2016	Thermoplastics pipes - Determination of ring stiffness	Min. 0.001 kN/m ²
JIS A 1454 : 2016	Test methods-Resilient floorcoverings 6. Dimensions of floor tile 7. Squareness of floor tile	Min. 0.001 mm Min. 0.01 mm Min. 0.01 %

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	8. Dimensions of the floor sheet 9. Dent test 10. Residual dent test 11. Change test of length and width by heating 12. Change test of length and width by water absorption	Min. 0.001 %
JIS A 9511 : 2006R/AMENDMENT 1 :2009	Preformed cellular plastics thermal insulation materials 5.4 Appearance 5.6 Density 5.7 Thermal conductivity 5.9 Compressive Strength 5.10 Flexural strength 5.11 Tensile strength 5.13.1 Method A 5.13.2 Method B 5.14 Water absorption amount	Min. 0.1 kg/m ³ Min. 0.015 W/(m•K) Min. 0.1 N/cm ² Min. 0.01 g/100cm ²
JIS K 6739 : 2007	Unplasticized poly (vinyl chloride) (PVC-U) pipe fittings for drain 9.1.1 Tensile test 9.1.2 Pressure resistance test 9.1.3 Flattening test 9.1.4 Vicat softening temperature test 9.2 Appearance and shape 9.3 Dimensions	Min. 0.1 MPa Min. 0.1 °C- Min. 0.001 mm
JIS K 6741 : 2007	Unplasticized poly (vinyl chloride) (PVC-U) pipes 9.1.1 Tensile test 9.1.2 Pressure test 9.1.3 Joint internal pressure test 9.1.4 Flattening test 9.1.5 Impact test 9.1.6 Vicat softening temperature test 9.1.12 Hot pressure creep test	Min. 0.1 MPa Min. 0.1 °C Min. 0.1 % Min. 0.01 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	9.1.15 Heat expansion test 9.2 Appearance and shape 9.3 Dimensions	
JIS K 6742 : 2007	Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply 9.1.1 Tensile test 9.1.2 Pressure test 9.1.3 Flattening test 9.1.4 Impact test 9.1.6 Vicat softening temperature test 9.1.8 Hot pressure creep test 9.1.10 Heat expansion test 9.2 Appearance and shape 9.3 Dimensions	Min. 0.1 MPa Min. 0.1 °C Min. 0.1 % Min. 0.01 mm
JIS K 6743 : 2007/AMENDMENT3 : 2011	Unplasticized poly (vinyl chloride) (PVC-U) pipe fittings for water supply 9.1.1 Tensile test 9.1.2 Pressure test 9.1.3 Flattening test 9.1.4 Impact test 9.1.5 Vicat softening temperature test 9.1.8 Hot pressure creep test 9.1.9 Oven test 9.2 Appearance and shape 9.3 Dimensions	Min. 0.1 MPa Min. 0.1 °C Min. 0.01 mm
JIS K 6745 : 2015	Plastics-Unplasticized poly (vinyl chloride) sheets -Type, dimensions and characteristics - Part 1: more than 1 mm thick plate 7.4.1 Tensile yield stress	Min. 0.01 MPa
JIS K 6767 : 1999	Cellular plastics—Polyethylene—Methods of test 7.1 Apparent density	Min. 0.01 kg/m ³ Min. 0.1 kPa, Min. 0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	7.4 Tensile strength and elongation 7.6.2 B method 8.7 Tear strength	Min. 0.000 1 g/cm ² , Min. 0.000 1 g/cm ³ Min. 0.1 N/cm
JIS K 6774 : 2013	Polyethylene pipes for the supply of gaseous fuels 6.2 Dimensions 6.3 Appearance and shape 6.4 Density test 6.16 Accelerated weathering test	Min. 0.01 mm Min. 0.000 1 g/cm ³ Min. 0.1 %
JIS K 6775-1 : 2005	Polyethylene pipe-fittings for the supply of gaseous fuels-Part 1: Heatfusion fittings 7.2 Dimensions 7.3 Appearance and shape 7.12 Tensile yield stress test	Min. 0.01 mm Min. 0.01 MPa
JIS K 6775-2 : 2013	Polyethylene pipe-fittings for the supply of gaseous fuels-Part 2: Spigot fittings 7.2 Dimensions 7.3 Appearance and shape 7.12 Tensile yield stress test	Min. 0.01 mm Min. 0.01 MPa
JIS K 6775-3 : 2013	Polyethylene pipe-fittings for the supply of gaseous fuels-Part 3: Electrofusion fittings 7.2 Dimensions 7.3 Appearance and shape 7.12 Tensile yield stress test	Min. 0.01 mm Min. 0.01 MPa
JIS K 6776 : 2007	Chlorinated poly (vinyl chloride) (PVC-C) pipes for hot and cold water supply 10.1.3 Flattening test 10.2 Appearance and shape 10.3 Dimensions	Min. 0.01 mm
JIS K 6777 : 2007/AMENDMENT3 : 2011	Chlorinated poly (vinyl chloride) (PVC-C) pipe fittings for hot and cold water supply 9.1.3 Flattening test	Min. 0.01 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	9.2 Appearance and shape 9.3 Dimensions	
JIS K 6849 : 1994	Testing methods for tensile strength of adhesive bonds	Min. 0.1 N/cm ²
JIS K 6850 : 1999	Adhesives—Determination of tensile lap-shear strength of rigid-to-rigid bonded assemblies	Min. 0.1 N/cm ²
JIS K 6852 : 1994	Testing methods for shear strength of adhesive bonds by compression loading	Min. 0.1 N/cm ²
JIS K 6911 : 1995/AMENDMENT1 : 2006	Testing methods for thermosetting plastics 5.16 Hardness 5.24 Flammability 5.24.1 Method A 5.28 Specific Gravity	0.1 ~ 130 Min. 0.000 1
JIS K 7060 : 1995	Testing method for barcol hardness of glass fiber reinforced plastics Type A	0 ~ 100
JIS K 7110 : 1999	Plastics—Determination of Izod impact strength	Min. 0.01 kJ/m ²
JIS K 7111-1 : 2012	Plastics-Determination of Charpy impact properties-Part 1: Non-instrumented impact test	Min. 0.01 kJ/m ²
JIS K 7112 : 1999	Plastics - Methods of determining the density and relative density of non-cellular plastics 5.1 Method A(Immersion Method)	Min. 0.000 1
JIS K 7127 : 1999	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets Except specimen type 4	Min. 0.01 MPa Min. 0.01 %
JIS K 7161-2 :2014	Plastics - Determination of tensile properties Part 2: Test conditions for moulding and extrusion plastics Except Poission's Ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
JIS Z 1528 : 2009	Pressure sensitive adhesive double coated tapes 6.4 Holding Power[a]Normal State] 6.5 Dimension 6.6 Appearance	Min. 0.01 mm Min. 0.001 mm
ASTM D 1002-10	Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading(Metal-to-Metal)	Min. 0.1 N/cm ²
ASTM D 1238-13	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer Procedure A(Manual Operation)	Min. 0.000 1 g/10 min
ASTM D 1525-09	Standard Test Method for Vicat Softening Temperature of Plastics	0.1 °C ~ 300 °C
ASTM D 1598-15a	Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure	-
ASTM D 1599 - 14e1	Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings	-
ASTM D 1621-16	Standard Test Method for Compressive Properties Of Rigid Cellular Plastics	Min. 0.1 kPa
ASTM D1622/D1622M-14	Standard Test Method for Apparent Density of Rigid Cellular Plastics	Min. 0.01 kg/m ³
ASTM D 1623-09	Standard Test Method for Tensile And Tensile Adhesion Properties of Rigid Cellular Plastics	Min. 0.1 kPa Min. 0.1 %
ASTM D 1693-15	Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics	Min. 1 min

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
ASTM D 2122 - 15	Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings	Min. 0.01 mm
ASTM D 2152-13	Standard Test Method for Adequacy of Fusion of Extruded Poly(Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion	Min. 0.1 %
ASTM D 2412-11	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading	Min. 0.01 kPa
ASTM D 2444-99(2010)	Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)	-
ASTM D 256-10e1	Standard Test Method for Determining the Izod Pendulum Impact Resistance of Plastics Except Test Method D	Min. 0.1 J/m
ASTM D 2583-13a	Standard Test Method for Indentation Hardness of Rigid Plastics by means of a Barcol Impressor	0 ~ 100
ASTM D 635-14	Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position	-
ASTM D 638-14	Standard Test Method for Tensile Properties of Plastics Except Poisson's Ratio	Min. 0.01 MPa Min. 0.01 % Min. 1 MPa
ASTM D 648-16	Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position Method B	0.1 °C ~ 300 °C
ASTM D 695-15	Standard Test Method for Compressive Properties of Rigid Plastics	Min. 0.01 MPa Min. 1 MPa
ASTM D 785-08 (2015)	Standard Test method for Rockwell Hardness of Plastics and Electrical	0.1 ~ 130

Korea Laboratory Accreditation Scheme

No. KT011

01.010 Plastic and Related Products

Test Method	Standard designation	Test range
	Insulating Materials Procedure A	
ASTM D 790-15e2	Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	Min. 0.01 MPa Min. 1 MPa
ASTM D 792-13	Standard Test Methods for Density and Specific Gravity(Relative Density) of Plastics by Displacement 1.2.1 Test Method A	Min. 0.000 1
ASTM D 882-12	Standard Test Method for Tensile Properties of Thin Plastic Sheeting	Min. 0.1 MPa Min. 0.1 %
ATSM D 1003-13	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics Procedure A(Haze meter)	0.1 ~ 100

01.012 Machine Element

Test Method	Standard designation	Test range
KS B 0143 : 2016	METHOD OF TIGHTENING TEST FOR THREADED FASTENERS	M3 ~ M39
KS B 0233 : 2005	MECHANICAL PROPERTIES OF STEEL BOLTS AND SCREWS	M3 ~ M39
KS B 0234 : 2009	Mechanical properties of steel nuts	M3 ~ M39
KS B 0241 : 2016	SPECIFICATION FOR CORROSION-RESISTANT STAINLESS STEEL FASTENERS	M3 ~ M39
KS B 0551 : 2015	MECHANICAL PROPERTIES OF FASTENERS PART 7 : TORSIONAL TEST AND MINIMUM FRACTURE TORQUES FOR BOLTS AND SCREWS	Nominal diameter 1 mm ~ 10 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.012 Machine Element

Test Method	Standard designation	Test range
	WITH NOMINAL DIAMETERS 1 MM TO 10 MM	
KS B 1010 : 2009	SET OF HIGH STRENGTH HEXAGON BOLT, HEXAGON NUT AND PLAIN WASHERS FOR FRICTION GRIP JOINTS	M12 ~ M30
KS B 1016 : 2015	FOUNDATION BOLTS 4. Mechanical Property	M8 ~ M48
KS B 1033 : 2007	EYEBOLTS 4. Mechanical Property	M8 ~ M80×6
KS B 1034 : 2007	EYENUTS 4. Mechanical Property	M8 ~ M80×6
KS B 1324 : 2010	Spring lock washers 11.2 Compression test	size 2 ~ 39
KS B 2402 : 2009	Hot formed helical springs 4. Springs property and tolerance	Free height : 900 mm (Max) Spring index : 4 ~ 15 Aspect ratio : 0.8 ~ 4 Number of active turns : 3 (Max) Pitch : 0.5D (Max)
KS B 2403 : 1979	Cold coilde helical compression springs 7. Springs property and tolerance	Free height : 900 mm (Max) Spring index : 4 ~ 15 Aspect ratio : 0.8 ~ 4 Number of active turns : 3 (Max) Pitch : 0.5D (Max)

Korea Laboratory Accreditation Scheme

No. KT011

01.012 Machine Element

Test Method	Standard designation	Test range
KS B 2813 : 2014	Wafer type rubber-seated butterfly valves 6.Performance a) pressure resisting quality of Valve body b) Sealing Performance of valve seat c) Opening torque of valve e) pressure resisting quality of valve disc and valve stem f) Strength of Opening tool	0.1 Mpa(min), 1 N.m(min)
KS B 2373 : 2016	Air vent valve for water 8.2 pressure resisting quality of Valve body 8.3 Sealing Performance of valve seat	0.1 Mpa (min)
KS B 2361 : 2015	Cast steel flanged valves 9.1 pressure resisting quality of Valve body 9.2 Sealing Performance of valve seat 9.3 Operation Test	0.1 Mpa (min)
KS B 2350 : 2015	Gray cast iron valves 10.1 pressure resisting quality of Valve body 10.2 Sealing Performance of valve seat 10.3 Operation Test	0.1 Mpa (min)
KS B 2342 : 2016	Snap tap with saddle for water works 8.1 Operation Test of Snap tap 8.2 pressure resisting quality of Snap tap 8.3 Sealing Performance of Snap tap	0.1 Mpa (min), 1 N.m (min)
Safety Inspection Standard Notice by Agency for Technology and Standards No.2016-0209 (2016.07.11)	Metal blades and blade guard for portable brush cutters 4.1 Appearance 4.2 Quality of Cutter 4.3 Material of Cutter(Bending Test) 4.4 Dimension 4.5 Flatness 4.6 Impact resistance 4.7 Axial Clearance 4.8 Overspeed test	1 mm/s ~ 10 mm/s 0.01 mm ~ 400 mm 8 000 r/min ~ 11 000 r/min 0.01 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.012 Machine Element

Test Method	Standard designation	Test range
ISO 898-1 : 2013	Mechanical properties of fasteners made of carbon steel and alloy steel Part1 : Bolts, screws and studs with specified property classes-Coarse thread and fine pitch thread 7. Mechanical and physical properties	M3 ~ M39
ISO 898-2 : 2012	Mechanical properties of fasteners made of carbon steel and alloy steel- Part2 : Nuts with specified property classes-Coarse thread and fine pitch thread 7. Mechanical properties	M3 ~ M39
ISO 16047 : 2005 /Amd 1 : 2012	Fasteners-Torque/clamp force testing 5. Principle of test 7. Test parts	M3 ~ M39
ASTM F606/F606M-16	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Min. 5 mm Min. 1/4 in.

01.013 Physical Test

Test Method	Standard designation	Test range
KS B 0812 : 2009	Method of Erichsen cupping test	0.01 mm ~ 15 mm
KS D 0201 : 2016	Testing Methods for Hot-Dipped Zinc Coating 4.2 Indirectmethod 5. Copper-Sulfate test 6.1 Visual inspection 6.2 Bending test 6.3 Erichsen test 6.5 Hammer method 7. Properties test(Alkali solubility test)	Min. 0.01 g/m ² - - - 0.01 mm ~ 15 mm - -

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
KS D 0219 : 2005	Method of Ferric Chloride Test for Stainless Steels	-
KS D 0222 : 2016	Method of 5 Percent Sulfuric Acid Test for Stainless Steels	-
KS D 0223 : 2016	Method of Ferric Sulfate-Sulfuric Acid Test for Stainless Steels	-
KS D 0224 : 2016	Method of Nitric-Hydrofluoric Acid Test for Stainless Steels	-
KS D 0225 : 2005	Method of 10 Percent Oxalic Acid Etch Test for Stainless Steels	-
KS D 0229 : 2013	Methods of Test for Hot Dip Aluminized Coatings on Ferrous Products 7.2 Indirect method(Sodium Hydroxide - solution)	Min. 0.01 g/m ²
	7.3 Indirect method(Sodium Hydroxide - Antimony trichloride solution)	Min. 0.01 g/m ²
KS D 0236 : 2003	Stress Corrosion Cracking Test for Stainless Steels	-
KS D 0246 : 2016	Methods of Thickness Test for Metallic Coatings	
	5. Microscope sectional method	Min. 1 μm
	6. Coulometric method	Min. 0.01μm
	7. Eddy current method	1 μm ~ 1 500 μm
	8. Magnetic method	1 μm ~ 1 500 μm
9. Fluorescent X-RAY method	0.01 μm ~ 50 μm	
KS D 0254 : 2001	Methods of Adhesion Test for Metallic Coatings	
	3.9 Bend test	-
	3.12 Thermal impact test	-
KS D 3520 : 2016	Prepainted Hot-Dip Zinc-Coated Steel Sheet and Coils	
	13.1.1 Salt spray test	-
	13.2.2 Bend test	-
	13.2.3 Pencil hardness	6B ~ 9H
	13.2.4 Impact test	-

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
	13.2.5 Baduk Board pattern method	-
KS D 6711 : 2012	Painted aluminium and aluminium alloy sheets and strips	
	4.2 Thickness of Coating	1 μm ~ 1 500 μm
	4.3 Pencil Hardness	6B ~ 9H
	4.4 Abrasion	-
	4.5 Bend test	-
	4.6 Impact transformation test	-
	4.7 Salt spray test	-
	4.8 Accelerated weathering test	-
	4.9 Acid and Alkali Resistance test	-
	4.10 Humidity Resistance test	-
	7.7 Specula gloss	1 ~ 160
KS D 8301 : 2001	Anodic oxide coatings on aluminium and aluminium alloys	
	11. Anodic Oxide Coating Thickness	1 μm ~ 1 500 μm
	14. Alkali Resistance	-
	15. CASS Test	-
	16. Abrasion Resistance (Sand-falling abrasion resistance test)	Min. 1 s
	17. Pollutants Resistance(Sealing Quality)	-
KS D 8303 : 2009	Combined coatings of anodic oxide and organic coatings on aluminium and aluminium alloys	
	5.4 Outward Appearance	-
	5.5 Anodic Oxide Coating Thickness	1 μm ~ 1 500 μm
	5.6 Organic Coating Thickness	1 μm ~ 1 500 μm
	5.7 CASS Resistance of Anodic Oxide Coating	-
	5.8 Adhesion of Organic Coating	-
	5.9 Pencil Hardness of Organic Coating	6B ~ 9H
	5.10 CASS Resistance of Organic Coating	-
	5.11 Alkali Resistance of Organic Coating	-
	5.13 Boiling Water Resistance of Organic Coating	-

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
	5.14 Abrasion Resistance of Anodic Oxide and Organic Coating(Sand-falling abrasion resistance test)	Min. 1 s
KS D 8314-3 : 2001	Test methods for abrasion resistance of anodic oxide coatings on aluminium and aluminium alloys-Part3 : Sand-falling abrasion resistance	Min. 1 s
KS D 8315 : 1996	Test methods for sealing quality of anodic oxide coatings on aluminium and aluminium alloys	Min. 0.001 g/dm ²
KS D 8334 : 2015	Methods of corrosion resistance test for metallic coatings 7.1 Neutral Salt Spray Test 7.3 CASS 8. Cycle Test	- - -
KS D 9502 : 2009	Method of salt spray testing(Neutral, Acetic acid salt spray test, CASS Test)	-
KS D ISO 14993 : 2003	Corrosion of metals and alloys – Accelerated testing involving cyclic exposure to salt mist, “dry” and “wet” conditions	-
KS M ISO 20567-1 : 2011	Paints and varnishes – Determination of stone-chip resistance of coatings – Part 1 : Multi-impact testing	-
KS C IEC 60068-2-52 : 2010	Environmental testing – Part 2 : Tests – Test Kb : Salt mist, cyclic(sodium chloride solution)	-
ASTM A262-15	Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels - Practice A : 10 % Oxalic acid test classification of etch structures of austenitic stainless steels - Practice B : Ferric sulfate - sulfuric	- -

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
	acid test for detecting susceptibility to intergranular attack in austenitic stainless steels - Practice C : Nitric acid test for detecting susceptibility to intergranular attack in austenitic stainless steels - Practice E : Copper - Copper Sulfate-16%Sulfuric Acid Test for detecting susceptibility to intergranular attack in austenitic stainless steels - Practice F : Copper-Copper Sulfate-50%Sulfuric Acid Test for detecting susceptibility to intergranular attack in austenitic stainless steels	- - -
ASTM A428/A428M-10	Standard Test Method for Weight [Mass] of Coating on Aluminum - Coated Iron or Steel Articles 6.4 Mass of Aluminum coating (Sodium Hydroxide-solution) 6.5 Mass of Aluminum coating (Sodium Hydroxide-Antimony trichloride solution)	Min. 0.01 g/m ² Min. 0.01 g/m ²
ASTM A90/90M-13	Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings	Min. 0.01 g/m ²
ASTM A923-14	Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	-
ASTM B117-16	Standard practice for operating salt spray(Fog) apparatus	-
ASTM	Standard Test Method for Measurement	Min. 0.001

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
B137-95(2014)	of Coating Mass Per Unit Area on Anodically Coated Aluminum	g/dm ²
ASTM B368-09	Standard Test Method for Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing(CASS Test)	-
ASTM B456-11	Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium	Plating thickness Cu, Ni : Min. 5 μm Cr : Min. 0.05 μm STEP Test : Min. 1 mV Ductility : Min. 5 % Micro pore number : (0 ~ 30 000) pores/cm ² /1 pore/cm ²
ASTM B499-09(2014)	Standard Test Method for Measurement of Coating Thicknesses by the Magnetic Method : Nonmagnetic Coatings on Magnetic Basis Metals	1 μm ~ 1 500 μm
ASTM B504-90	Standard Test Method for Measurement of Thickness of Metallic Coatings by the Coulometric Method	Min. 0.01 μm
ASTM B568-98	Standard Test Method for Measurement of Coating Thickness by X-Ray Spectrometry	0.01 μm ~ 50 μm
ASTM B571-97	Standard Practice of Qualitative Adhesion Testing of Metallic Coating 3. Bend test 8. Grind-Saw Test 9. Heat-Quench Test 13. Scribe-Grid Test	- - - -
ASTM B764-04	Standard Test Method for Simultaneous Thickness and	Min. 1 mV

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
	Electrode Potential Determination of Individual Layers in Multilayer Nickel Deposit (STEP Test)	
ASTM D130-12	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test	-
ASTM D968-15	Standard Test Methods of Abrasion Resistance of Organic Coating by Falling Abrasive	001 $\mu\text{m/L}$ ~ 500 $\mu\text{m/L}$
ASTM D3170/D3170M-14	Standard Test Method for Chipping Resistance of Coatings	-
ASTM E376-11	Standard Practice for Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Testing Methods	Min. 0.01 μm
ASTM G36-94	Standard Practice for Evaluating Stress- Corrosion-Cracking Resistance of Metals and Alloys in a Boiling Magnesium Chloride Solution	-
ASTM G48-11	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution	-
D17 2028-D : 2014	CORROSION TEST BY AUTOMATIC CHANGE OF PHASES OF SALT SPRAY, DRYING AND HUMIDITY (ECC1)	-
D17 1058-K : 2014	NEUTRAL SALT SPRAY TEST	-
D24 1702-L : 2009	PAINTS RESISTANCE TO GRITTING BY SHOT BLASTING	-
	Minimum Performance Requirements for Decorative Chromium Plated	Plating thickness : Min. 0.01 μm

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
GMW14668 : 2015	Plastic Parts	STEP Test : Min. 1 mV Peel off : Min. 0.01 N/cm Micro pore number : (0 ~ 30 000) pores/cm ² /1 pore/cm ²
GMW14700 : 2012	Stone Impact Resistance of Coatings	-
GMW14729 : 2010	Procedures for High Humidity Test	-
GMW14829 : 2012	Tape Adhesion Test for Paint Finishes	-
GMW14872 : 2013	Cyclic Corrosion Laboratory Test	-
ISO 1460 : 1992	Metallic coatings-Hot dip galvanized coatings on ferrous materials -Gravimetric determination of the mass per unit area	Min. 0.01 g/m ²
ISO 2177 : 2003	Metallic coatings - Measurement of coating thickness - Coulometric method by anodic dissolution	Min. 0.01 μm
ISO 1463 : 2003	Metallic and oxide coatings - Measurement of coating thickness-Microscopical method	Min. 1 μm
ISO 3497 : 2000	Metallic coatings - Measurement of coating thickness - X-ray spectrometric methods	(0.01 ~ 50) μm
ISO 9227 : 2017	Corrosion tests in artificial atmospheres-Salt spray tests	-
ISO 14993 : 2001	Corrosion of metals and alloys -Accelerated testing involving cyclic exposure to salt mist, "dry" and "wet" conditions	-
ISO 20567-1 : 2017	Paints and varnishes -Determination of stone - chip resistance of	-

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
	coatings - Part 1 : Multi-impact testing	
JIS H 0401 : 2013	Test methods for hot dip galvanized coatings 5.2 Indirect method 6. Copper-Sulfate test 7.1 Visual inspection 7.2 Bending test 7.3 Hammer method 8. Properties test(Alkali solubility test)	- - - - - -
JIS H 4001 : 2006	Painted aluminium and aluminium alloy sheets and strips 7.2 Coating Thickness 7.3 Pencil Hardness 7.4 Abrasion 7.5 Bend test 7.6 Impact transformation test 7.7 Specula gloss 7.8 Salt spray test 7.9 Accelerated weathering test 7.10 Acid and Alkali Resistance test 7.11 Humidity Resistance test	1 μm ~ 1 500 μm 6B ~ 9H - - - 1 ~ 160 - - - -
JIS H 8501 : 1999	Methods of thickness test for metallic coatings 9. The microscope sectional Method 10. Coulometric method 11. Eddy Current Method 12. Magnetic Method 13. Fluorescent X-RAY Method	Min. 1 μm Min. 0.01 μm 1 μm ~ 1 500 μm 1 μm ~ 1 500 μm Min. 0.01 μm
JIS H 8502 : 1999	Methods of corrosion resistance test or metallic coatings 7.1 Neutral salt spray test 7.2 Acetic acid salt spray test 7.3 CASS Test 8. Cycle Test	- - - -

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
JIS H 8503 : 1989	Methods of wear resistance test for metallic coatings 7. Sand-falling abrasion resistance test	Min. 1 s
JIS H 8601 : 1999	Anodic oxide coatings on aluminium and aluminium alloys 6.2 Anodic Oxide Coating Thickness 6.3 Alkali Resistance CASS Resistance 6.4 Abrasion Resistance(Sand-falling abrasion resistance test) 6.5 Pollutants Resistance (Sealing Quality)	1 μm ~ 1 500 μm - Min. 1 s Min. 0.001 g/dm ²
JIS H 8683-2 : 2013	Anodizing of aluminium and its alloys -- Assessment of quality of sealed anodic oxidation coatings -- Part 2: Measurement of the loss of mass after immersion in phosphoric acid/chromic acid solution	Min. 0.001 g/dm ²
JIS Z 2247 : 2006	Method of Erichsen cupping test	0.01 mm ~ 15 mm
JIS Z 2371 : 2005	Salt spray test 7.2.1 Neutral salt spray test 7.2.2 Acetic acid salt spray test 7.2.3 CASS Test	- - -
PS 8810 : 2011	CHROMIUM PLATING -DECORATIVE - PLASTIC PARTS - INTERIOR AND EXTERIOR	Plating thickness : Min. 0.01 μm STEP Test : Min. 1 mV Micro Pore number : (0 ~ 30 000) pores/cm ² /1 pore/cm ²
RCSC APPENDIX A : 2014	Specification for Structural Joints Using ASTM A325 or A490 Bolts APPENDIX A. Testing Method to Determine The Slip Coefficient for Coatings Used	0.1 ~ 1.0

Korea Laboratory Accreditation Scheme

No. KT011

01.013 Physical Test

Test Method	Standard designation	Test range
	In Bolted Joints	
SAE J400 : 2012	Test for Chip Resistance of Surface Coatings	-
SAE J2334 : 2016	Cosmetic Corrosion Lab Test	-
IEC 60068-2-52 : 1996	Environmental testing – Part 2 : Tests – Test Kb : Salt mist, cyclic(sodium chloride solution)	-
MS600-66 : 2013	Test Method for Accelerated Corrosion under complex environments	-
MIL-STD-810G w/Change 1 : 2014	Environmental Engineering Considerations and Laboratory Tests - Method 509.6 Salt Fog	-

01.016 Building and Construction Materials

Test Method	Standard designation	Test range
KS L 9102 : 2014	Artificial mineral fiber thermal insulation materials 1.dimensions 2.Specific Gravity 3.Thermal conductivity 6.Particle content	Min. 0.001 mm Min. 0.1 kg/m ³ (0.015 ~ 0.43) W/m·K Min. 0.1 %
KS L 9104 : 2012	Ceramic fiber blanket 1.dimensions 2.Specific Gravity 3.Short content	Min. 0.001mm Min. 0.1 kg/m ³ Min. 0.01 %
KS L 9105 : 2014	Dressed rockwool boards for acoustic use 1.dimensions 2.Right angle degree 3.Specific Gravity 4.Flexural breaking-load	Min. 0.001 mm Min. 0.000 1 Min. 0.1 kg/m ³ Min. 0.1 N

Korea Laboratory Accreditation Scheme

No. KT011

01.016 Building and Construction Materials

Test Method	Standard designation	Test range
	5.moisture content 6.Thermal Resistance	Min. 0.01 % (0.008 ~ 1.8) m ² -K/W
KS L 9106 : 2015	Mineral wool sheathing boards 1.dimensions 2.Specific Gravity 3.Flexural breaking-load 4.absorption 5.Change in length by absorption 6.Thermal Resistance	Min. 0.001 mm Min. 0.1 kg/m ³ Min. 0.1 N Min. 0.1 % Min. 0.01 % (0.008 ~ 1.8) m ² -K/W

01.017 Living Supplies

Test Method	Standard designation	Test range
	Safety of toys - Part 2 : Flammability	
	5.1 General	
	5.2 Test relating to beards, moust aches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy	1 s, 0.01 mm
KS G ISO 8124-2 : 2015	5.3 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude less than 50 mm from the surface of the toy	1 s, 0.01 mm
	5.4 Test relating to flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc., fabric masks which partially or fully cover	1 s, 0.01 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	the head, toy disguise costumes, toys intended to be entered by a child	
	5.5 Test for soft-filled toys with a maximum demension of 520 mm	1 s, 0.01 mm
	5.6 Test for soft - filled toys with a maximum greater than 520 mm	1 s, 0.01 mm
16 CFR 1500.52	Test method for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36months of age	0.1 N, 0.1 N·m
16 CFR 1500.53	Test method for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96months of age	0.1 N, 0.1 N·m
Safety check safety standards Annex 7 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's tricycles 3.1 Appearance 3.2 Materials 3.2.1 Corrosion resistance for plating 3.2.2 Adhesion strength of coatings 3.2.6 Small parts 3.3 Structure 3.3.1 Clearance between mudguard and wheel 3.3.2 Attachment of pedal 3.3.3 Clearance between seat and the ground 3.3.4 Double post handle 3.3.5 Handle 3.3.6 Attachment of component 3.4 Performance 3.4.1 Stability 3.4.2 Slip resistance 3.4.3 Running test 3.4.4 Handle bar torque	Visual assessment - Visual assessment Visual assessment Visual assessment - 1 mm 1 mm 1 mm Visual assessment Visual assessment Visual assessment - Visual assessment Visual assessment Visual assessment 0.5 N·m

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	3.4.5 Wheel torque 3.4.6 Tension test of handle 3.4.7 Static load of step 3.4.8 Static load of backrest 3.4.9 Drop test 3.4.10 Drum test 3.4.11 Impact test 3.4.12 Pull up test for back wheels 3.4.13 Pull up test for front wheel 3.4.14 Torque test 3.4.15 Strength of footrest 3.4.16 Strength of safety belt	0.5 N·m Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment 0.1 N Visual assessment 0.1 N, 0.01 mm
Regulatory Safety Confirmation Standards Annex 1 (Ministry of Trade, Industry & Energy Notification No. 2017-0016)	Textile products for infant 5.1.1 Adhesion strength of small parts 5.1.2 Cords and drawstrings	Visual assessment, above 0.1 N above 0.01 mm
Supplier of appropriate safety standards Annex 2 (Usually the Ministry of Industry Notice No. 2015-0109)	Swab for Children 5.6 Adhesion strength between cotton and shaft & Flexural strength for shaft 5.6.1 Adhesion strength between cotton and shaft 5.6.2 Flexural strength for shaft	Visual assessment Visual assessment
Regulatory Safety Confirmation Standards Annex 6 (Ministry of	Toys Part 2 Safety aspects related to mechanical and physical properties 5.2 Small parts test	Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
Trade, Industry & Energy Notification No. 2017-0016)	5.3 Test for shape and size of certain toys	Visual assessment
	5.4 Small balls and suction cup test	Visual assessment
	5.5 Test for pompoms	Visual assessment
	5.6 Test for pre-school play figures	Visual assessment
	5.7 Accessibility of apart or component	Visual assessment
	5.8 Sharp-edge test	above 0.01 mm
	5.9 Sharp-point test	Visual assessment
	5.10 Determination of thickness of plastic film and sheeting	above 0.001 mm
	5.11 Test for cords	above 0.01 mm, above 1 M Ω
	5.12 Stability and overload tests	Visual assessment
	5.13 Test for closures and toy chest lids	Visual assessment
	5.14 Impact test for toys that cover the face	Visual assessment
	5.15 Kinetic energy of projectiles, bows and arrows	above 0.1 mm/s
	5.16 Free-wheeling facility and brake performance test	above 0.1 N
	5.17 Determination of speed of electrically driven ride-on toys	above 0.1 mm/s
	5.18 Determination of temperature increases	above 0.1 $^{\circ}$ C
	5.19 Leakage of liquid-filled toys	Visual assessment
	5.20 Durability of mouth-actuated toys	Visual assessment
	5.21 Expanding materials	above 0.01 mm
	5.22 Folding or sliding mechanisms	Visual assessment
	5.23 Washable toys	Visual assessment
	5.24 Reasonably foreseeable abuse tests	Visual assessment
	5.25 Borosilicate glass	above 0.000 1 g
	5.26 Bite test	Visual assessment
	5.27 Determination of sound pressure	above 30 dB

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	levels	
	5.28 Static strength for toy scooters	Visual assessment
	5.29 Dynamic strength for toy scooters	Visual assessment
	5.30 Brake performance for toy scooters	above 0.1 N
	5.31 Strength of toy scooter steering tubes	Visual assessment
	5.32 Resistance to separation of handle bar	Visual assessment
	5.33 Tension test for magnets	Visual assessment
	5.34 Magnetic flux index	above 5 G
	5.35 Impact test for magnets	Visual assessment
	5.36 Soaking test for magnets	Visual assessment
	5.37 Determination of projectile range	above 0.01 mm
	5.38 Tip assessment of rigid projectiles	Visual assessment
	5.39 Length of suction cup projectiles	above 0.01 mm
	Part 3 Flammability	
	5.2 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy	above 1 s, above 0.01 mm
	5.3 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude less than 50 mm from the surface of the toy	above 1 s, above 0.01 mm
	5.4 Test relating to flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc., fabric masks which partially or fully cover the head,	above 1 s, above 0.01 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	toy disguise costumes, toys intended to be entered by a child 5.5 Test for soft-filled toys with a maximum dimension of 520 mm 5.6 Test for soft-filled toys with a maximum greater than 520 mm Part 5 Swings, slides and similar activity toys for indoor and outdoor family domestic use 6.1 Stability 6.2 Static strength 6.3 Dynamic strength of barriers and handrails 6.4 Determination of impact from swing elements 6.5 Test for head and neck entrapment 6.6 Toggle test 6.7 Test for protrusions 6.8 Durability test for suspension connectors and means of suspension Part 6 Experimental sets for chemistry and related activities 5.2.6 Test method for borosilicate glass Annex A Test methods for closures of reagent containers	above 1 s, above 0.01 mm above 1 s, above 0.01 mm Visual assessment Visual assessment Visual assessment above 0.1 g (acceleration) Visual assessment Visual assessment Visual assessment Visual assessment above 0.1 mg Visual assessment
Safety Certification Examination	Domestic pressure pans and pressure pots	
Standard annex 3	6.2 Appearance	-

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
(Korean Agency for Technology and Standards Notification No.2017-17)	6.3 structure	Pressure : Min. 4.9 kPa Open the lid : Min. 1N volume : Min. 0.001L
	6.4 performance	Pressure : Min. 4.9 kPa Konb temperature : Min. 1°C
ASTM F963-11	Standard Consumer Safety Specification for Toy Safety 4. Safety Requirements 4.1 Material Quality 4.5 Sound-Producing Toys 4.6 Small Objects 4.7 Accessible Edges 4.8 Projections 4.9 Accessible Points 4.10 Wires or Rods 4.11 Nails and Fasteners 4.12 Plastic Film 4.13 Folding Mechanisms and Hinges 4.14 Cords, Straps, and Elastics 4.15 Stability and Over-Load Requirements 4.16 Confined Spaces 4.17 Wheels, Tires, and Axles 4.18 Holes, Clearances, and Accessibility of Mechanisms 4.19 Simulated Protective Devices (such as helmets, hats and goggles) 4.20.2 Toy Pacifiers 4.21 Projectile Toys 4.22 Teethers and Teething Toys 4.23 Rattles 4.24 Squeeze Toys 4.25 Battery-Operated Toys	Visual assessment (30 ~ 130) dB /0.1 dB Visual assessment 0.01 mm Visual assessment Visual assessment Visual assessment Visual assessment 0.001 mm Visual assessment 0.1 mm Visual assessment 1 mm Visual assessment Visual assessment Visual assessment Visual assessment 0.1 mg, 0.1 m/s Visual assessment Visual assessment Visual assessment 1 °C

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	4.26 Toy intended to be Attached to a Crib or Playpen 4.27 Stuffed and Beanbag-Type Toys 4.28 Stoller and Carriage Toys 4.30 Toy Gun Marking 4.31 Balloons 4.32 Certain Toys With Spherical Ends 4.33 Marbles 4.34 Balls 4.35 PomPoms 4.36 Hemispheric-Shaped Objects 4.38 Magnets 4.39 Jaw Entrapment in Handles and Steering Wheels 5. Labeling Requirements 6. Instructional Literature 7. Producer's Markings 8. Test Methods	0.1 N 0.1 N Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment 5 G Visual assessment Visual assessment Visual assessment -
16 CFR 1511	Requirements for pacifiers	Visual assessment
ISO 8124-1 : 2014	Safety of toys - Part 1 : Safety aspects related to mechanical and physical properties 5.1 General 5.2 Small parts test 5.3 Test for shape and size of certain toys 5.4 Small balls test 5.5 Test for pompoms 5.6 Test for pre-school play figures 5.7 Accessibility of a part or component 5.8 Sharp-edge test 5.9 Sharp-point test 5.10 Determination of thickness of plastic film and sheeting 5.11 Test for cords	- Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment 0.01 mm Visual assessment 0.001 mm 1 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	5.12 Stability and overload tests	Visual assessment
	5.13 Test for closures and toy chest lids	Visual assessment
	5.14 Impact test for toys that cover the face	Visual assessment
	5.15 Kinetic energy of projectiles, bows and arrows	0.1 mg, 0.1 m/s
	5.16 Free-wheeling facility and brake performance test	Visual assessment
	5.17 Determination of speed of electrically driven ride-on toys	1 mm, 1 s
	5.18 Determination of temperature increases	0.1 °C
	5.19 Leakage of liquid-filled toys	Visual assessment
	5.20 Durability of mouth-actuated toys	Visual assessment
	5.21 Expanding materials	0.01 mm
	5.22 Folding or sliding mechanisms	Visual assessment
	5.23 Washable toys	Visual assessment
	5.24 Reasonably foreseeable abuse tests	Visual assessment
	5.25 Determination of sound pressure levels	(30~130) dB / 0.1 dB
	5.26 Static strength for toy scooters	Visual assessment
	5.27 Dynamic strength for toy scooters	Visual assessment
	5.28 Brake performance for toy scooters	Visual assessment
	5.29 Strength of toy scooter steering tubes	Visual assessment
	5.30 Resistance to separation of handlebar	0.1 N
	5.31 Tension test for magnets	Visual assessment
	5.32 Magnetic flux index	5 G
	5.33 Impact test for magnets	Visual assessment
	5.34 Soaking test for magnets	Visual assessment
ISO 8124-2 : 2014	Safety of toys - Part 2 : Flammability 5.1 General 5.2 Test relating to beards, moustaches, wigs, etc., made from hair, pile or	- 1 s, 0.01 mm

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	<p>material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy</p> <p>5.3 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude less than 50 mm from the surface of the toy</p> <p>5.4 Test relating to flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc., fabric masks which partially or fully cover the head, toy disguise costumes, toys intended to be entered by a child</p> <p>5.5 Test for soft-filled toys</p>	<p>1 s, 0.01 mm</p> <p>1 s, 0.01 mm</p> <p>1 s, 0.01 mm</p>
ISO 8124-4 : 2014	<p>Safety of toys - Part 4 : Swings, slides and similar activity toys for indoor and outdoor family domestic use</p> <p>6.1 Stability</p> <p>6.2 Static strength</p> <p>6.3 Dynamic strength of barriers and handrails</p> <p>6.4 Determination of impact from swing elements</p> <p>6.5 Test for head and neck entrapment</p> <p>6.6 Toggle test</p> <p>6.7 Test for protrusions</p> <p>6.8 Durability test for suspension connectors and means of suspension</p> <p>6.9 Deflation of inflatable activity toys</p> <p>6.10 Static load test for paddling pools with non-inflatable walls</p>	<p>Visual assessment</p> <p>Visual assessment</p> <p>Visual assessment</p> <p>0.1 g(acceleration)</p> <p>Visual assessment</p> <p>Visual assessment</p> <p>Visual assessment</p> <p>Visual assessment</p> <p>0.1 s</p> <p>0.1 s</p>
KS G ISO 8124-1 : 2015	Safety of toys - Part 1 : Safety aspects related to mechanical and physical	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	properties	
	5.1 General	-
	5.2 Small parts test	Visual assessment
	5.3 Test for shape and size of certain toys	Visual assessment
	5.4 Small balls test	Visual assessment
	5.5 Test for pompoms	Visual assessment
	5.6 Test for pre-school play figures	Visual assessment
	5.7 Accessibility of a part or component	Visual assessment
	5.8 Sharp-edge test	0.01 mm
	5.9 Sharp-point test	Visual assessment
	5.10 Determination of thickness of plastic film and sheeting	0.001 mm
	5.11 Test for cords	1 MΩ
	5.12 Stability and overload tests	Visual assessment
	5.13 Test for closures and toy chest lids	Visual assessment
	5.14 Impact test for toys that cover the face	Visual assessment
	5.15 Kinetic energy of projectiles, bows and arrows	0.1 mg, 0.1 m/s
	5.16 Free-wheeling facility and brake performance test	Visual assessment
	5.17 Determination of speed of electrically driven ride-on toys	1 mm, 1 s
	5.18 Determination of temperature increases	1 °C
	5.19 Leakage of liquid-filled toys	
	5.20 Durability of mouth-actuated toys	Visual assessment
	5.21 Expanding materials	Visual assessment
	5.22 Folding or sliding mechanisms	0.01 mm
	5.23 Washable toys	Visual assessment
	5.24 Reasonably foreseeable abuse tests	Visual assessment
	5.25 Determination of sound pressure levels	(30~130) dB
	5.26 Static strength for toy scooters	/ 0.1 dB
	5.27 Dynamic strength for toy scooters	Visual assessment
	5.28 Brake performance for toy scooters	Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	5.29 Strength of toy scooter steering tubes 5.30 Resistance to separation of handlebar 5.31 Tension test for magnets 5.32 Magnetic flux index 5.33 Impact test for magnets 5.34 Soaking test for magnets	Visual assessment Visual assessment 0.1 N Visual assessment 5 G Visual assessment Visual assessment
KS G ISO 8124-4 : 2015	Safety of toys - Part 4 : Swings, slides and similar activity toys for indoor and outdoor family domestic use 6.1 Stability 6.2 Static strength 6.3 Dynamic strength of barriers and handrails 6.4 Determination of impact from swing elements 6.5 Test for head and neck entrapment 6.6 Toggle test 6.7 Test for protrusions 6.8 Durability test for suspension connectors and means of suspension 6.9 Deflation of inflatable activity toys	Visual assessment Visual assessment Visual assessment 0.1 g(acceleration) Visual assessment Visual assessment Visual assessment Visual assessment 0.1 s
KS P 4404 : 2009	Lenses for sunglass 7.5 Transmittance 7.5.1 Ultra-violet region test 7.5.2 Visible region test	0.1 % 0.1 %
Supplier's Declaration of Conformity Annex 1 (Ministry of Trade, Industry & Energy Notification No. 2017-0017)	Leather products for Children 5.1.1 Adhesion strength of small parts 5.1.1.1 Small parts test 5.1.1.2 Tensile test for small parts 5.1.1.3 Washing or dry cleaning test 5.1.2 Cords and drawstrings	- Visual assessment 0.1 N Visual assessment 0.01 mm
Supplier of appropriate safety	Sunglass / Glasses Frame for children 3.1 Light rejection	0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
standards Annex 3 (Usually the Ministry of Industry Notice No. 2015-0109)		
Supplier of appropriate safety standards Annex 4 (Usually the Ministry of Industry Notice No. 2015-0109)	Swimming goggles for children 6.3 Impact test for lense 6.4 Refracting power 6.5 Prism power 6.6 Water tightness 6.7 Compression resistance for body 6.8 Repeated load of band 6.9 Ozone deterioration of band	Visual assessment 0.01 D 0.01 Δ Visual assessment Visual assessment Visual assessment Visual assessment
Supplier of appropriate safety standards Annex 5 (Usually the Ministry of Industry Notice No. 2015-0109)	Umbrella & Parasol for children 6.1 End tip strength 6.2 Adhesion strength between handle and cap 6.3 Flexural strength	0.1 N 0.01 N·m 0.1 N
Supplier of appropriate safety standards Annex 6 (Usually the Ministry of Industry Notice No. 2015-0109)	Roller Shoes For Children 5.1 Apperance and structure 5.2 Strength test 5.3 Frictional resistance test 5.4 Impact test 5.5 Running test 5.6 Compression Load	Visual assessment Visual assessment 0.1 N Visual assessment Visual assessment Visual assessment
Supplier of appropriate safety standards Annex 7 (Usually the Ministry of Industry Notice No. 2015-0109)	Roller Skates For Children 5.1 Apperance and structure 5.2 Performance 5.2.1 Running test 5.2.2 Compression Load 5.2.3 Adhesion test for wheels 5.2.4 Adhesion test for shoes 5.2.5 Strength for fixture 5.2.6 Frictional resistance test	Visual assessment - Visual assessment Visual assessment 0.1 N 0.1 N Visual assessment 0.1 N
Supplier of	Shopping Trolleys	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
appropriate safety standards Annex 10 (Usually the Ministry of Industry Notice No. 2015-0109)	5.1 Sharp edges 5.2 Sharp points 5.3 Safety belt	0.01 mm Visual assessment 0.1 N
Supplier of appropriate safety standards Annex 11 (Usually the Ministry of Industry Notice No. 2015-0109)	Children's Jewelry 5.1 Appearance 5.2 Performance 5.2.1 Fastness for dyeing or printing 5.2.2 Function 5.2.3 Sharp edges 5.2.4 Sharp points 5.2.5 Breakaway tension test	Visual assessment - Visual assessment Visual assessment 0.01 mm Visual assessment 0.1 N
Supplier of appropriate safety standards Annex 12 (Usually the Ministry of Industry Notice No. 2015-0109)	Kick board For Children 6.2 Appearance and structure 6.3 Handle test 6.4 Foot board test 6.5 Running test 6.6 Hardness for wheels 6.7 Adhesion strength for wheels 6.8 Corrosion resistance for plating 6.9 Impact test 6.10 Drop test 6.11 Stability test for folding device 6.12 Brake test 6.13 Stability test for electrically powered kick board	Visual assessment 0.1 N Visual assessment Visual assessment 1 Hs 0.1 N Visual assessment Visual assessment Visual assessment 0.1 N 0.1 km/h
Supplier of appropriate safety standards Annex 13 (Usually the Ministry of Industry Notice No. 2015-0109)	In-line roller skates For Children 6.2 Appearance and structure 6.3 Strength test 6.4 Frictional resistance test 6.5 Impact test 6.5.1 Impact test for front wheel 6.5.2 Horizontal and vertical impact test for brake 6.5.3 Vertical impact test 6.6 Running test 6.7 Adhesion test for shoes 6.8 Compression load test	Visual assessment 0.1 N 0.1 N - Visual assessment Visual assessment Visual assessment Visual assessment 0.1 N 0.1 N

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
Supplier of appropriate safety standards Annex 14 (Usually the Ministry of Industry Notice No. 2015-0109)	Furniture for Children 6.1 Small parts test 6.2 Sharp edges test 6.3 Sharp points test 6.4 Projections 6.5 Metal tubes 6.6 Cords and elastics	Visual assessment 0.01 mm Visual assessment Visual assessment 0.1 N 0.01 mm
16 CFR 1500.51	Test method for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less	0.1 N, 0.1 N · m
16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age	0.01 mm
16 CFR 1501	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts	Visual assessment
Safety check safety standards Annex 5 (Usually the Ministry of Industry Notice No. 2015-0108)	Bunk beds for children Part 2 Test method 5.1 Assembly and inspection before test 5.2 Inspection of workmanship 5.3 Measuring clearance between side slats and between bed base and sides 5.4 Strength tests 5.5 Durability test of frame and fastenings 5.6 Ladder 5.7 Stability test 5.8 Fastening of upper bed to lower bed	Visual assessment Visual assessment 0.01 mm 0.1 N Visual assessment 0.1 N 0.1 N 0.1 N

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
Regulatory Safety Confirmation Standards Annex 2 (Ministry of Trade, Industry & Energy Notification No. 2017-0016)	Care articles for children	
	Part 1 : Children's bedguards	
	5.1 Appearance	Visual assessment
	5.2.1 Small parts	Visual assessment
	5.2.2 Sharp edges	above 0.01 mm
	5.2.3 Sharp points	Visual assessment
	5.2.4 Protrusions	Visual assessment
	5.2.5 Magnets and magnetic components	above 5 G
	5.2.6 Structure	above 0.01 mm
	5.2.7 Strength	above 0.2 N
	5.3 Fixability and component	above 0.2 N
	Part 2 : Soothers for babies and young children	
	5.1.1 General safety requirements	Visual assessment
	5.1.2 Shield test	above 0.1 N
	5.1.3 Protrusions test	above 0.1 N
	5.1.4 Soother tension test	above 0.1 N
	5.1.5 Tension test for Ring or knob	above 0.1 N
	5.1.6 Heat resistance test	above 0.1 °C
	5.1.7 Test for dyeing fabric	(1 ~ 5) Grade
	5.1.8 Magnets and magnetic components	above 5 G
Part 3 : Soother holder for babies and young children		
5.1.1 General safety requirements	Visual assessment	
5.1.2 Finger traps test	Visual assessment	
5.1.3 Length test	above 0.1 N, above 0.01 mm	
5.1.4 Width test for straps	above 0.1 N, above 0.01 mm	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	5.1.5 Thickness test for cords 5.1.6 Length test for exposed cords 5.1.7 Impact resistance test 5.1.8 Tension test 5.1.9 Test for dyeing fabric 5.1.10 Openings 5.1.11 Magnets and magnetic components	above 0.01 mm above 0.01 mm Visual assessment above 0.1 N (1 ~ 5) Grade above 0.01 mm above 5 G
EN 71-8 : 2011	Safety of toys - Part 8: Activity toys for domestic use 6.1 General 6.2 Stability 6.3 Static strength 6.4 Dynamic strength of barrier and handrails 6.5 Test for head and neck entrapment 6.6 Toggle test 6.7 Measurements of sliding and run-out sections on slides 6.8 Diameter of ropes and other means of suspension 6.9 Determination of impact from swing elements 6.10 Static load test for paddling pools with non-inflatable walls	- Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment 0.1 g(acceleration) 0.1 s
Safety check safety standards Annex 8 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's chair Part 1 Children's high chairs 5.3 Appearance and structure 5.7 Strength of hardness attachments 5.8 Strength of crotch strap 5.9 Stability test 5.10 General strength test 5.11 Restraint system retention test 5.12 Test for folding high chairs 5.13 Strength of adjustable back mechanism Part 2 Children's booster chairs 5.3 Appearance and structure 5.7 General strength test	Visual assessment 0.1 N 0.1 N 0.1 N Visual assessment 0.1 N 0.1 N 0.1 N Visual assessment Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	5.8 Strength of seat surface 5.9 Restraint system retention test Part 3 Children's table mounted chairs 5.3 Appearance and structure 5.7 General strength test 5.8 Chair dropt est 5.9 Strength of seat surface 5.10 Restraint system retention test 5.11 Table disengagement test	Visual assessment 0.1 N Visual assessment Visual assessment Visual assessment Visual assessment 0.1 N Visual assessment
Safety check safety standards Annex 11 (Usually the Ministry of Industry Notice No. 2017-0016)	School things 5.8 Lid of marking pen	0.01 mm, 0.1 L/min
Safety check safety standards Annex 12 (Usually the Ministry of Industry Notice No. 2015-0108)	Baby walking frames 4.2.2 Hazardous magnet 4.3 Structure 4.3.1 Safety frame 4.3.2 Height of seat 4.3.3 Gap between upper face of safety frame and upper face of seat 4.3.4 Figuration of seat plate and backrest 4.3.5 Gap between inner face and vertical face for safety frame 4.3.6 Opening 4.3.7 Folding device 4.4 Performance 4.4.1 Tension test for small parts 4.4.2 Operating force 4.4.3 Runing stability 4.4.4 Static stability 4.4.5 Strength of seat and frame 4.4.6 Static load 4.4.7 Prevention of falls down step 4.4.8 Stopper test 7.2.1 Corrosion resistance for plating	5 G - 0.1 mm 0.1 mm 0.1 mm 0.1 mm 0.1 mm 0.01 mm Visual assessment - 0.1 N, Visual assessment 0.1 N, Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
Safety check safety standards Annex 13 (Usually the Ministry of Industry Notice No. 2015-0108)	Baby Carriage	
	6.2 Materials	
	6.2.1 Busting strength	0.1 kPa
	6.2.2 Hardness of tires	1 Hs
	6.2.4 Magnets and magnetic components	5 G
	6.3 Structure	-
	6.3.1 Construction	Visual assessment
	6.3.2 Seat Recline	1 mm
	6.3.3 Measurements of length, minimum internal height and width for box type hammock	1 mm
	6.3.4 Angle between the backrest and seat surface	1°
	6.3.5 Seat belts	0.01 mm
	6.3.6 Crotch belts	0.01 mm
	6.3.7 Shoulder straps	0.01 mm
	6.3.8 Strength of the harness anchorage points	0.1 N
	6.3.9 Footrest and leg support	1 mm
	6.3.10 Unintentional release of locking devices by single action	Visual assessment
	6.3.11 Openings	(0.03 ~ 1) mm
	6.3.12 Angle between backrest and horizontal plane	0.01 mm
	6.3.13 Small parts	Visual assessment
	6.4 Performance	-
	6.4.1 Runing test	Visual assessment
6.4.2 Stability	Visual assessment	
6.4.3 Function of stopper	Visual assessment	
6.4.4 Static load for foot rest and leg support bar	Visual assessment	
6.4.5 Strength of seat belt	0.01 mm	
6.4.6 Strength of crotch belt	0.1 N	
6.4.7 Static load of backrest	Visual assessment	
6.4.8 Vibration acceleration	0.1 g(acceleration)	
6.4.9 Durability(Irregular surface test)	Visual assessment	
6.4.10 Impact durability	Visual assessment	
	Children's cots	
	Part 1 General requirement and test	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
Safety check safety standards Annex 14 (Usually the Ministry of Industry Notice No. 2015-0108)	method	
	4.5 Magnets and magnetic components Part 2 Requirement of inclined infant cradle, cot and test method	5 G
	5.1 Test of springs	0.01 mm
	5.2 Test of locking mechanism	Visual assessment
	5.3 Test of adjustable mechanism	0.1°
	5.4 Test of stability	Visual assessment
	5.5 Test of static strength	Visual assessment
	5.6 Test of dynamic strength for handle	Visual assessment
	5.7 Test of slip resistance for adjustable cot	Visual assessment
	5.8 Static slip resistance test for restraint system	0.01 mm
	5.9 Strength of restraint system	0.01 mm
	5.10 Durability	Visual assessment
	5.11 Function of stopper	Visual assessment
	5.12 Static load of backrest	Visual assessment
	Part 3 Requirement of infant cot, cradle for domestic use and test method	
	Chapter 2 Test method	
	5.1 Assembly and inspection before test	Visual assessment
	5.2 Inspection of workmanship	Visual assessment
	5.3 Measurements	1 mm
	5.4 Detachable parts	0.1 N
	5.5 Base support test	Visual assessment
	5.6 Strength of side slats(bending test)	0.1 N
	5.7 Strength of the cot base(impact test)	Visual assessment
	5.8 Vertical static load test	Visual assessment
	5.9 Stability test	Visual assessment
	5.10 Test of locking mechanism	0.1 N
	5.11 Castors/wheel	Visual assessment
	Part 4 Requirement of infant cot, folding cot for domestic use and test method	
	Chapter 2 Test method	
	5.1 Assembly and inspection before test	Visual assessment
	5.2 Inspection of workmanship	Visual assessment
5.3 Measurements	1 mm	
5.4 Detachable parts	0.1 N	
5.5 Strength of the cot base(impact test)	Visual assessment	
5.6 Strength of side slats(bending test)	0.1 N	
5.7 Strength of sides or side	Visual assessment	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	slats(impact test) 5.8 Strength of frame and fastenings 5.9 Stability test 5.10 Test of locking mechanism 5.11 Castors or wheel locks Part 5 Requirement of play yard and test method Chapter 2 Test method 5.1 Assembly and inspection before test 5.2 Inspection 5.3 Measurement 5.4 Shearing and compressing points 5.5 Footboard 5.6 Detachable parts 5.7 Bite test 5.8 Checking of protruding parts, gaps and openings 5.9 Folding and locking mechanism 5.10 Bottom plate 5.11 Strength 5.12 Stability test 5.13 Castors/wheel	Visual assessment Visual assessment 0.1 N Visual assessment Visual assessment Visual assessment 1 mm Visual assessment Visual assessment 0.1 N Visual assessment Visual assessment 0.1 N Visual assessment Visual assessment Visual assessment Visual assessment
Regulatory Safety Confirmation Standards Annex 68 (Korean Agency for Technology and Standards Notification No. 2017-18)	Thermal Pack for children 6.2 Sealing test 6.3 Strength test 6.3.1 Tension test 6.3.2 Drop test 6.7 Temperature property 6.8 Adhesion strength 6.9 Leakage test of liquid	Visual assessment - 0.1 N Visual assessment 0.1 °C Visual assessment Visual assessment
Safety check safety standards Annex 16 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's Carrier Part 1 - Children's Soft Carrier 6.1 Appearance 6.2 Materials 6.2.3 Flammability of textiles 6.3 Construction 6.3.1 General 6.3.2 Small parts	Visual assessment, 0.01 mm - 1 s, 0.01 mm - Visual assessment Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	6.3.3 Cords, leather straps, belts and rubber bands 6.4 Performance 6.4.1 Accessibility of fillings 6.4.2 Durability of attachment system 6.4.3 Dynamic strength 6.4.4 Strength of shoulder straps 6.4.5 Head restraint Part 2 - Children's Frame Carrier 6.1 Appearance 6.2 Materials 6.2.3 Flammability of textiles 6.2.4 Corrosion resistance for plating 6.3 Construction 6.3.1 General 6.3.2 Gaps and openings 6.3.3 Edges 6.3.4 Small parts 6.3.5 Moving parts 6.3.6 Cords, leather straps, belts and rubber bands 6.4 Performance 6.4.1 Accessibility of fillings 6.4.2 Stability 6.4.3 Durability of attachment system 6.4.4 Dynamic strength 6.4.5 Child restraint system 6.4.6 Strength of shoulder straps 6.4.7 Strength of frame 6.4.8 Head restraint	Visual assessment, 0.1 N, 0.01 mm - Visual assessment Visual assessment Visual assessment 0.01 N Visual assessment - Visual assessment - 1 s, 0.01 mm Visual assessment - Visual assessment Visual assessment Visual assessment Visual assessment 0.1N, 0.1 N, 0.01 mm - Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment 0.1 N 0.1 N Visual assessment
Common safety standards for children's products (Usually the Ministry of Industry Notice No. 2017-0018)	Common safety standards for children's products 6.2.1 Small parts test 6.2.2 Sharp edges test 6.2.3 Sharp points test 6.2.4 Magnetic flux index 6.2.5 Soaking test for magnets 6.2.6 Tension test for magnets 6.2.7 Drop test 6.2.8 Tip-over test for large and bulky	Visual assessment 0.01 mm Visual assessment 5 G Visual assessment Visual assessment Visual assessment Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	toys 6.2.9 Torque test 6.2.10 Tension test 6.2.11 Compression test	Visual assessment Visual assessment Visual assessment
Safety Certification Criteria Annex 1 (Usually the Ministry of Industry Notice No. 2015-0107)	Aquatic Equipment For Children Part 1 Inflatable aquatic equipment 5.1 Appearance 5.2 Thickness test for plastic sheet of inflatable aquatic equipment 5.3 Tensile load test for plastic sheet of inflatable aquatic equipment 5.4 Loss on heating 5.5 Volume measurement of buoyancy chamber 5.6 Tensile strength 5.7 Resistance of pressure and leakage Part 2 Buoyant aids to be worn 6.2 Conditioning prior to testing 6.3 Materials and markings-resistance to chlorinated salt water 6.4 Markings-resistance to saliva 6.5 Markings-resistance to perspiration 6.6 Buoyancy characteristics 6.7 Efficiency of non-return valves of inflatable devices 6.8 Residual buoyancy 6.9 Adjustability, retention of function, edges, corners and points 6.10 Security of buckle 6.11 Seam strength and durability 6.12 Puncture test 6.13 Adhesion of markings 6.14 Small parts 6.15 Test for integrity of the entire assembly 6.16 Tests on the properties of materials and the performance of specific devices 6.16.1 Resistance of foam and other inherent buoyant materials to	Visual assessment 0.001 mm 0.1 N 0.1 mg 0.1 dm ³ 0.1 N 1 mm - 0.1 mg 0.5 grade 0.5 grade 0.5 grade 0.1 N 0.1 N 0.1 N Visual assessment 0.1 N Visual assessment Visual assessment Visual assessment Visual assessment - 0.1 N

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	water absorption 6.16.2 Resistance of foam and other inherent buoyant materials to compression 6.16.7 Stability for children's swim seats Part 3 Requirements and test methods for buoyant device 6.2 Conditioning prior to testing 6.3 Materials and markings-resistance to chlorinated salt water 6.4 Markings-resistance to saliva 6.5 Markings-resistance to perspiration 6.6 Buoyancy characteristics 6.7 Valves, edges, corners and points 6.8 Inflatable devices 6.8.1 Non-return valve efficiency 6.8.2 Seam strength and durability 6.8.3 Puncture test 6.9 Adhesion of markings 6.10 Small parts 6.11 Tests on the properties of materials 6.11.1 Resistance of foam and other inherent buoyant materials to water absorption	0.1 N Visual assessment - 0.1 mg 0.5 grade 0.5 grade 0.5 grade 0.1 N Visual assessment - 0.1 N Visual assessment Visual assessment Visual assessment Visual assessment - 0.1 N
Safety Certification Criteria Annex 2 (Usually the Ministry of Industry Notice No. 2015-0107)	Play Ground Equipments for Children Part 1 General requirements and test methods Annex A Loads Annex B Method of calculation of structural integrity Annex C Physical testing of structural integrity Annex D Test methods for entrapment Part 2 Additional specific safety requirements and test methods for swings Annex A Determination of swing seat impact attenuation Annex B Dynamic load test for suspension systems of swings Part 4 Additional specific safety requirements and test methods	Visual assessment Visual assessment Visual assessment 2N - 0.1 g(acceleration) Visual assessment -

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	for cableways Annex A Method for the determination of performance of stops	1°
	Annex B Method for the determination of the maximum speed of the traveller	1°, 1 s
	Part 5 Additional specific safety requirements and test methods for carousels	-
	Annex A Method for the determination of attachment strength of supporting structure components to the rotating shaft	2 N, 0.01 mm
	Part 6 Additional specific safety requirements and test methods for rocking equipment	-
	Annex B Determination of seat/stand slope and ground clearance	2 N
	Annex C Determination of freedom from pinch and crush points	2 N
	Annex D Determination of sideways stability	2 N
	Annex E Determination of hand support and/or footrest projection	Visual assessment
Safety Certification Criteria Annex 4 (Usually the Ministry of Industry Notice No. 2015-0107)	BB Guns for Children 5.1 Appearance 5.2.1 Sharp edges 5.2.2 Shot 5.2.3 Propellant energy 5.2.4 Structure of propellant system 5.2.5 Safety device 5.3.1 Shot performance 5.3.2 Trigger pull test 5.3.3 Kinetic energy of BB shot 5.3.4 Drop test 5.3.6 Mean thickness of packaging film	Visual assessment Visual assessment 0.1 mg, 0.01 mm 0.1 mg, 0.1 m/s Visual assessment Visual assessment Visual assessment 0.1 N 0.1 mg, 0.1 m/s Visual assessment 0.001 mm
Safety Certification	Aquatic Equipment For Children Part 1 Inflatable aquatic equipment	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
Standard Annex 7 (Korean Agency for Technology and Standards Notification No. 2017-17)	5.1 Appearance	Visual assessment
	5.2 Thickness test for plastic sheet of inflatable aquatic equipment	0.001 mm
	5.3 Tensile load test for plastic sheet of inflatable aquatic equipment	0.1 N
	5.4 Loss on heating	0.1 mg
	5.5 Cold flexibility of plastic	0.1 °C
	5.6 Volume measurement of buoyancy chamber	0.1 dm ³
	5.7 Tensile strength	0.1 N
	5.8 Resistance of pressure and leakage	1 mm
	Part 2 Inflatable Boats	-
	5.1 Appearance	Visual assessment
	5.2 Thickness test for plastic sheet	0.001 mm
	5.3 Tensile load test for plastic sheet	0.1 N
	5.4 Loss on heating	0.1 mg
	5.5 Cold flexibility of plastic	0.1 °C
	5.6 Cold flexibility of rubber	0.1 °C
	5.7 Volume measurement of buoyancy chamber	0.1 dm ³
	5.8 Tensile strength	0.1 N
	5.9 Resistance of pressure and leakage	1 mm
	5.10 Test method for coated fabrics	-
	5.10.1 Weight measurement for coated fabrics	0.01 g
	5.10.2 Tensile strength for coated fabric	0.1 N
	5.10.3 Tear strength for coated fabric	0.1 N
	5.10.4 Weatherability test for coated fabric	0.1 N
	5.10.5 Accelerated aging test for coated fabric	0.1 N
	5.11 Tensile strength for cords and straps	0.1 N
	5.12 Strength for adhesive joint	0.1 N
	5.13 Ozone resistance test	Visual assessment
	5.14 Corrosion resistance for metal component	Visual assessment
	Part 3 Buoyant aids to be worn	-
	6.2 Conditioning prior to testing	0.1 mg
6.3 Materials and markings-resistance to	0.5 grade	

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	chlorinated salt water	
	6.4 Markings-resistance to saliva	0.5 grade
	6.5 Markings-resistance to perspiration	0.5 grade
	6.6 Buoyancy characteristics	0.1 N
	6.7 Efficiency of non-return valves of inflatable devices	Visual assessment
	6.8 Residual buoyancy	0.1 N
	6.9 Adjustability, retention of function, edges, corners and points	Visual assessment
	6.10 Security of buckle	0.1 N
	6.11 Seam strength and durability of inflatable devices	Visual assessment
	6.12 Puncture test	Visual assessment
	6.13 Adhesion of markings	Visual assessment
	6.14 Small parts	Visual assessment
	6.15 Test for integrity of the entire assembly	Visual assessment
	6.16 Tests on the properties of materials and the performance of specific devices	-
	6.16.1 Resistance of foam and other inherent buoyant materials to water absorption	0.1 N
	6.16.2 Resistance of foam and other inherent buoyant materials to compression	0.1 N
	6.16.11 Stability for children's swim seats	Visual assessment
	Part 4 Requirements and test methods for buoyant devices to be held	
	6.2 Conditioning prior to testing	0.1 mg
	6.3 Materials and markings-resistance to chlorinated salt water	0.5 grade
	6.4 Markings-resistance to saliva	0.5 grade
	6.5 Markings-resistance to perspiration	0.5 grade
	6.6 Buoyancy characteristics	0.1 N
	6.7 Valves, edges, corners and points	Visual assessment
	6.8 Inflatable devices	-
	6.8.1 Non-return valve efficiency	Visual assessment
	6.8.2 Seam strength and durability	Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	6.8.3 Puncture test 6.9 Adhesion of markings 6.10 Small parts 6.11 Tests on the properties of materials 6.11.1 Resistance of foam and other inherent buoyant materials to water absorption	Visual assessment Visual assessment Visual assessment - 0.1 N
Safety Certification Standard Annex 10 (Korean Agency for Technology and Standards Notification No. 2017-17)	BB Guns Part1 Children and youth 3.1 Appearance 3.2 Structure 3.2.1 Sharp edges 3.2.2 Shot 3.2.3 Propellant energy 3.2.4 Structure of propellant system 3.2.5 Safety device 3.3 Performance 3.3.1 Propellant performance 3.3.2 Trigger pull test 3.3.3 Kinetic energy of BB shot 3.3.4 Drop test 3.3.6 Mean thickness of packaging film	Visual assessment - 0.01 mm 0.1 mg, 0.01 mm, 0.1 mg, 0.1 m/s Visual assessment Visual assessment - Visual assessment 0.1 N 0.1 mg, 0.1 m/s Visual assessment 0.001 mm
Voluntary safety requirements annex 68(Korean Agency for Technology and Standards Notification No.2012-0175)	Thermal Pack for children 6.2 Sealing test 6.3 Strength test 6.3.1 Tension test 6.3.2 Drop test 6.7 Temperature property 6.8 Adhesion strength 6.9 Leakage test of liquid	Visual assessment - 0.1 N 0.1 °C Visual assessment Visual assessment Visua lassessment
EN 71-1 : 2014	Safety of toys - Part 1: Mechanical and physical properties, 8.1 General requirements for testing 8.2 Small parts cylinder 8.3 Torque test 8.4 Tension test	Visual assessment Visual assessment Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	8.5 Drop test	Visual assessment
	8.6 Tip over test	Visual assessment
	8.7 Impact test	Visual assessment
	8.8 Compression test	Visual assessment
	8.9 Soaking test	Visual assessment
	8.10 Accessibility of a part or component	Visual assessment
	8.11 Sharpness of edges	0.01 mm
	8.12 Sharpness of points	Visual assessment
	8.13 Flexibility of metallic wires	Visual assessment
	8.14 Expanding materials	0.01 mm
	8.15 Leakage of liquid-filled toys	Visual assessment
	8.16 Geometric shape of certain toys	Visual assessment
	8.17 Durability of mouth-actuated toys	Visual assessment
	8.18 Folding or sliding mechanisms	Visual assessment
	8.19 Electric resistivity of cords	1 MΩ
	8.20 Cords cross-sectional dimension	0.01 mm
	8.21 Static strength	Visual assessment
	8.22 Dynamic strength	Visual assessment
	8.23 Stability	Visual assessment
	8.24 Determination of kinetic energy	0.1 mg, 0.1 m/s
	8.25 Plastic sheeting	0.001 mm,
	8.26 Brake performance	0.1 N
	8.27 Strength of toy scooter steering tubes	Visual assessment
	8.28 Determination of emission sound pressure levels	(30 ~ 130) dB /0.1 dB
	8.29 Determination of maximum design speed of electrically-driven ride-on toys	1 mm, 0.1 s
	8.30 Measurement of temperature rises	0.1 °C
	8.31 Toy chest lids	Visual assessment
	8.32 Small balls and suction cups test	Visual assessment
	8.33 Test for play figures	Visual assessment
	8.34 Tension test for magnets	Visual assessment
	8.35 Magnetic flux index	5 G
	8.36 Perimeter of cords and chains	0.01 mm
	8.37 Yo-yo balls measurements	0.01 mm
	8.38 Breakaway feature separation test	Visual assessment
	8.39 Self-retracting cords	Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	8.40 Length of cords, chains and electrical cables	0.01 mm
EN 71-2:2011+A1:2014	Safety of toys - Part 2: Flammability 5.1 General 5.2 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper, cloth strands or other flowing elements), which protrude 50 mm or more from the surface of the toy 5.3 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper, cloth strands or other flowing elements), 12 which protrude less than 50 mm from the surface of the toy, and full or partial moulded head masks 5.4 Test relating to flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc. and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and cardboard masks, eye masks, face masks), toy disguise costumes and toys intended to be entered or worn by a child 5.5 Test for soft-filled toys	1 s, 0.01 mm 1 s, 0.01 mm 1 s, 0.01 mm 1 s, 0.01 mm
EN 71-4 : 2013	Safety of toys - Part 4 : Experimental sets for chemistry and related activities 5.2.6 Test method for borosilicate glass Annex A Test methods for closures of reagent containe	- 0.1 mg Visual assessment
EN 71-5 : 2015	Safety of toys - Part 5 : Chemical toys (sets) other than experimental sets	-

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
GB 6675.2-2014	Safety of toys—Part 2 : Mechanical and physical properties 5.1 General 5.2 Small parts test 5.3 Test for shape and size of certain toys 5.4 Small balls test 5.5 Test for pompoms 5.6 Test for pre-school play figures 5.7 Accessibility of a part or component 5.8 Sharp-edge test 5.9 Sharp-point test 5.10 Determination of thickness of plastic film and sheeting 5.11 Test for cords 5.12 Stability and overload tests 5.13 Test for closures and toy chest lids 5.14 Impact test for toys that cover the face 5.15 Kinetic energy of projectiles, bows and arrows 5.16 Free-wheeling facility and brake performance test 5.17 Determination of speed of electrically driven ride-on toys 5.18 Determination of temperature increases 5.19 Leakage of liquid-filled toys 5.20 Durability of mouth-actuated toys 5.21 Expanding materials 5.22 Folding or sliding mechanisms 5.23 Washable toys 5.24 Reasonably foreseeable abuse tests 5.25 Determination of sound pressure levels 5.26 Tension test for magnets 5.27 Magnetic flux index 5.28 Impact test for magnets 5.29 Soaking test for magnets	- Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment Visual assessment 0.01 mm Visual assessment 0.001 mm 1 MΩ Visual assessment Visual assessment Visual assessment 0.1 mg, 0.1 m/s Visual assessment 1 mm, 1 s 0.1°C Visual assessment Visual assessment 0.01 mm Visual assessment Visual assessment Visual assessment (30 ~ 130) dB/0.1 dB Visual assessment 5 G Visual assessment Visual assessment
GB 6675.3-2014	Safety of toys—Part 3:Flammability 5.1 General	-

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
	5.2 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy 5.3 Test relating to beards, moustaches, wigs, etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude less than 50 mm from the surface of the toy 5.4 Test relating to flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc., fabric masks which partially or fully cover the head, toy disguise costumes, toys intended to be entered by a child 5.5 Test for soft-filled toys with a maximum dimension of 520 mm 5.6 Test for soft-filled toys with a maximum dimension greater than 520 mm	Visual assessment 1 s, 0.01 mm 1 s, 0.01 mm 1 s, 0.01 mm 1 s, 0.01 mm
GB 6675.11-2014	Safety of toys—Part 11 : Swings, slides and similar activity toys for indoor and outdoor family domestic use 6.1 Stability 6.2 Static strength 6.3 Dynamic strength of barriers and handrails 6.4 Determination of impact from swing elements 6.5 Test for head and neck entrapment 6.6 Toggle test 6.7 Test for protrusions 6.8 Durability test for suspension connectors and means of suspension	- Visual assessment Visual assessment Visual assessment 0.1 g (acceleration) Visual assessment Visual assessment Visual assessment Visual assessment
GB 6675.12-2014	Safety of toys—Part 12 : Toy scooter 5.1 Static strength 5.2 Dynamic strength 5.3 Brake performance 5.4 Strength of steering tubes	- Visual assessment 0.1 N Visual assessment

Korea Laboratory Accreditation Scheme

No. KT011

01.017 Living Supplies

Test Method	Standard designation	Test range
16 CFR 1510	Requirements for rattles	Visual assessment
16 CFR 1500.19	Misbranded toys and other articles intended for use by children.	0.1 N 0.1N · m
16 CFR 1500.44	Method for determining extremely flammable and flammable solids	0.01 mm, 0.01 s
16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles	Visual assessment
Supplier of appropriate safety standards Annex 15 (Usually the Ministry of Industry Notice No. 2017-0017)	Textile products for children 5.1.1 Codes and drawstrings	0.01 mm
Self Regulatory Safety Confirmation Standards Annex 70 (Korean Agency for Technology and Standards Notification No. 2015-0685)	Metal blades and blade guard for portable brush cutters 4.3 Material of Cutter(Chemical components)	(unit : %) C : (0.001 0 ~ 4.09) Si : (0.004 ~ 3.38) Mn : (0.001 4 ~ 19.59) P : (0.001 3 ~ 1.00) S : (0.001 ~ 0.382) Ni : (0.001 4 ~ 35.45) Cr : (0.001 6 ~ 31.88) Mo : (0.000 8 ~ 9.22) Cu : (0.000 6 ~ 3.12) W : (0.000 7 ~ 19.05) V : (0.000 9 ~ 2.03) Co : (0.002 5 ~ 10.20) Ti : (0.001 ~ 0.45) Al : (0.001 ~ 1.6) As : (0.001 3 ~ 0.011) Sn : (0.001 ~ 0.25) B : (0.000 2 ~ 0.049) Pb : (0.001 ~ 0.033) Zr : (0.004 ~ 0.072) Nb : (0.001 ~ 2.00) Mg : (0.000 1 ~ 0.107) Sb : (0.001 2 ~ 0.072)

02. Chemical Test

Korea Laboratory Accreditation Scheme

No. KT011

02.001 Iron and Steel

Test Method	Standard designation	Test range
KS D 1652 : 2007	Iron and steel Method for spark discharge atomic emission spectrometric analysis	C : (0.001 0 ~ 4.09) % Si : (0.004 ~ 3.38) % Mn : (0.001 4 ~ 19.59) % P : (0.001 3 ~ 1.00) % S : (0.001 ~ 0.382) % Ni : (0.001 4 ~ 35.45) % Cr : (0.001 6 ~ 31.88) % Mo : (0.000 8 ~ 9.22) % Cu : (0.000 6 ~ 3.12) % W : (0.000 7 ~ 19.05) % V : (0.000 9 ~ 2.03) % Co : (0.002 5 ~ 10.20) % Ti : (0.001 ~ 0.45) % Al : (0.001 ~ 1.6) % As : (0.001 3 ~ 0.011) % Sn : (0.001 ~ 0.25) % B : (0.000 2 ~ 0.049) % Pb : (0.001 ~ 0.033) % Zr : (0.004 ~ 0.072) % Nb : (0.001 ~ 2.00) % Mg : (0.000 1 ~ 0.107) % Sb : (0.001 2 ~ 0.072) %
ASTM E1086-14	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry	Ni : 7.5 ~ 13.0 Cr : 17.0 ~ 23.0 Mo : 0.01 ~ 3.0 Mn : 0.047 ~ 2.0 Si : 0.01 ~ 0.90 Cu : 0.01 ~ 0.30 C : 0.008 ~ 0.25 P : 0.005 ~ 0.15 S : 0.003 ~ 0.065
ASTM E415-15	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry	C : (0.001 0 ~ 1.1) % Si : (0.004 ~ 1.15) % Mn : (0.001 4 ~ 2.0) % P : (0.001 3 ~ 0.085) % S : (0.001 ~ 0.055) % Ni : (0.001 4 ~ 5.0) % Cr : (0.001 6 ~ 2.25) %

Korea Laboratory Accreditation Scheme

No. KT011

02.001 Iron and Steel

Test Method	Standard designation	Test range
		Mo : (0.000 8 ~ 0.6) % Cu : (0.000 6 ~ 0.5) % V : (0.000 9 ~ 0.3) % Co : (0.002 5 ~ 0.18) % Ti : (0.001 ~ 0.2) % Al : (0.001 ~ 0.075) % As : (0.001 3 ~ 0.011) % Sn : (0.001 ~ 0.045) % B : (0.000 2 ~ 0.007) % Zr : (0.004 ~ 0.05) % Nb : (0.001 ~ 0.085) %
JIS G 1253 : 2013	Iron and steel—Method for spark discharge atomic emission spectrometric analysis	C : (0.001 0 ~ 4.09) % Si : (0.004 ~ 3.38) % Mn : (0.001 4 ~ 19.59) % P : (0.001 3 ~ 1.00) % S : (0.001 ~ 0.382) % Ni : (0.001 4 ~ 35.45) % Cr : (0.001 6 ~ 31.88) % Mo : (0.000 8 ~ 9.22) % Cu : (0.000 6 ~ 3.12) % W : (0.000 7 ~ 19.05) % V : (0.000 9 ~ 2.03) % Co : (0.002 5 ~ 10.20) % Ti : (0.001 ~ 0.45) % Al : (0.001 ~ 1.6) % As : (0.001 3 ~ 0.011) % Sn : (0.001 ~ 0.25) % B : (0.000 2 ~ 0.049) % Pb : (0.001 ~ 0.033) % Zr : (0.004 ~ 0.072) % Nb : (0.001 ~ 2.00) % Mg : (0.000 1 ~ 0.107) % Sb : (0.001 2 ~ 0.072) %
KS D 1673 : 2007	Methods for inductively coupled plasma emission spectrochemical analysis of steel Al, Si, P, Ti, V, Cr, Mn, Co, Ni, Cu, Mo,	Al (0.004 ~ 0.10) % Si (0.01 ~ 0.60) % P (0.003 ~ 0.10) % Ti (0.001 ~ 0.30) % V (0.002 ~ 0.50) % Cr (0.01 ~ 3.00) % Mn (0.01 ~ 2.00) % Co (0.003 ~ 0.20) % Ni (0.01 ~ 4.00) % Cu (0.01 ~ 0.50) %

Korea Laboratory Accreditation Scheme

No. KT011

02.001 Iron and Steel

Test Method	Standard designation	Test range
		Mo (0.01 ~ 1.20) %
KS D 1802 : 2001	Methods for determination of phosphorus in iron and steel 4. Absorption spectrophotometry method A	(0.005 ~ 0.5) %
KS D 1803 : 2003	Methods for determination of sulfur in iron and steel 10 Infrared absorption method (integration)	0.005 %
KS D 1804 : 2003	Determination of carbon in iron and steel 8. Infrared absorption method	0.001 %
KS D 1805 : 2003	Determination of silicon in iron and steel 3.1 Gravimetric analysis method	0.1 %
KS D 1806 : 2003	Determination of manganese in iron and steel 3.3 Volumetric analysis method B	0.1 %
KS D 1807 : 2003	Determination of chromium in iron and steel 3.1 Volumetric analysis method	0.1 %
KS D 1808 : 2003	Determination of nickel in iron and steel 3.2 Gravimetric analysis method	0.05 %
KS D 1809 : 2003	Determination of molybdenum in iron and steel 3.1 Gravimetric analysis method	0.03 %
KS D 1659 : 2008	Methods for atomic absorption spectrophotometric analysis of iron and steel 8 Manganese quantitative analysis method 9 Nickel quantitative analysis method 12 Copper quantitative analysis method 14 Cobalt quantitative analysis method 18 Lead quantitative analysis method a) Direct method 19 Magnesium analysis method	Mn (0.003 ~ 2.0) % Ni (0.003 ~ 1.0) % Cu (0.003 ~ 1.0) % Co (0.01 ~ 0.5) % Pb (0.01 ~ 0.3) % Mg (0.001 ~ 0.1) % Zn (0.005 ~ 0.025) % Bi (0.003 ~ 0.1) % Sb (0.005 ~ 0.05) %

Korea Laboratory Accreditation Scheme

No. KT011

02.001 Iron and Steel

Test Method	Standard designation	Test range
	21 Zinc quantitative analysis method a) Direct method 22 Bismuth quantitative analysis method a) Direct method 23 Antimony quantitative analysis method a) Direct method	
KS D 1812 : 2003	Determination of tungsten in iron and steel 3.1 Gravimetric analysis method	0.3 %
KS D 1904 : 2007	Methods for chemical analysis of ferrosilicon 3.1 Gravimetric analysis method	0.6 %
ASTM E1019-11	Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Fusion Techniques Carbon, Sulfur	C (0.001 ~ 4.50) % S (0.001 ~ 0.600) %

02.002 Nonferrous

Test Method	Standard designation	Test range
KS D 1678 : 2012	Methods for inductively coupled plasma emission spectrometric analysis of aluminum and aluminum alloys	Cu (0.01 ~ 6.0) % Fe (0.02 ~ 1.5) % Mn (0.01 ~ 2.0) % Mg (0.01 ~ 12.0) % Zn (0.01 ~ 8.0) % Ni (0.01 ~ 3.0) % Ti (0.01 ~ 0.5) % Cr (0.01 ~ 0.5) % Pb (0.01 ~ 1.0) % Bi (0.01 ~ 1.0) % Zr (0.01 ~ 0.5) % Sn (0.01 ~ 0.5) % V (0.01 ~ 0.25) % B (0.01 ~ 0.25) %

Korea Laboratory Accreditation Scheme

No. KT011

02.002 Nonferrous

Test Method	Standard designation	Test range
KS D 1863 : 2003	Methods for determination of silicon in aluminium and aluminium alloys 4.1 Gravimetric analysis method	0.1 % More than
KS D 1886 : 2012	Methods for determination of cobalt in copper and copper alloys 4 c) ICP emission spectroscopy	(0.01 ~ 1.0) %
KS D 1889 : 2016	Methods for determination of aluminium in copper and copper alloys 4.5 Inductively Coupled Plasma Emission Spectrometry Method	(0.002 ~ 12.0) %
KS D 1892 : 2016	Mehods for determination of iron in copper and copper alloys 4.5 Atomic absorption spectrometry	(0.01 ~ 6.0) %
	4.6 Inductively Coupled Plasma Emission Spectrometry Method	(0.01 ~ 6.0) %
KS D 1893 : 2016	Methods for determination of copper in copper and copper alloys 4.1 Copper electrolytic Gravimetric analysis method (Nitric acid□sulfuric acid method) 4.2 Copper electrolytic Volumetric analysis method (Nitric acid□Acid bromide□Boric acid method)	54 % More than (44 ~ 96) %
KS D 1894 : 2013	Methods for determination of tin in copper and copper alloys 4 d) Atomic absorption spectrometry 4 e) Inductively Coupled Plasma Emission Spectrometry Method	(0.02 ~ 4.0) % (0.02 ~ 15) %
KS D 1895 :	Methods for determination of lead in	

Korea Laboratory Accreditation Scheme

No. KT011

02.002 Nonferrous

Test Method	Standard designation	Test range
2014	copper and copper alloys 4 c) Atomic absorption spectrometry 5 f) Inductively Coupled Plasma Emission Spectrometry Method	(0.01 ~ 7.0) % (0.1 ~ 22) %
KS D 1896 : 2016	Methods for determination of manganese in copper and copper alloys 4.4 Atomic absorption spectrometry 4.5 Inductively Coupled Plasma Emission Spectrometry Method	(0.01 ~ 5) % (0.01 ~ 15) %
KS D 1897 : 2016	Methods for determination of nickel in copper and copper alloys 4.2 Nickel-copper separation of dimethyl glyoxime gravimetric method 4.4 Atomic absorption spectrometry 4.5 Inductively Coupled Plasma Emission Spectrometry Method	(2 ~ 50) % (0.01 ~ 7) % (0.01 ~ 7) %
KS D 1966 : 2012	Determination of beryllium in copper alloys 4 c) Inductively Coupled Plasma Emission Spectrometry Method	(0.1 ~ 2.0) %
KS D 1980 : 2012	Methods for chemical analysis of solder Lead Silver Antimony Copper Bismuth Zinc Iron Aluminum Cadmium	0.001 % 0.001 % 0.001 % 0.001 % 0.001 % 0.000 1 % 0.001 % 0.000 1 % 0.001 %
ISO 5960 : 1984	Copper alloys - Determination of cadmium content - Flame atomic absorption spectrometric method	(0.000 5 ~ 2.0) %
ASTM E34-11 ^{ε 1}	Standard Test Methods for Chemical	

Korea Laboratory Accreditation Scheme

No. KT011

02.002 Nonferrous

Test Method	Standard designation	Test range
	Analysis of Aluminum and Aluminum-Base Alloys Cadmium by the atomic absorption test method	(0.001 ~ 0.5) %
ASTM E 536-16	Standard Test Methods for Chemical Analysis of Zinc and Zinc Alloys Lead, Cadmium by the atomic absorption method	Pb (0.001 ~ 1.6) % Cd (0.001 ~ 0.5) %
JIS H 1055 : 2003	Methods for determination of manganese in copper and copper alloys 7. Atomic absorption method 8. ICP emission spectroscopy	(0.01 ~ 5.0) % (0.01 ~ 15) %
JIS H 1056 : 2003/AMENDMENT 1 : 2013	Methods for determination of nickel in copper and copper alloys (Amendment 1) 4. Nickel-copper separation of dimethyl glyoxime gravimetric method 8. ICP emission spectroscopy	(2.0 ~ 50) % (0.01 ~ 7.0) %
JIS H 1057 : 1999	Methods for determination of aluminium in copper and copper alloys 8. ICP emission spectroscopy	(0.002 ~ 12) %
JIS H 1061 : 2006	Methods for determination of silicon in copper and copper alloys 5. Silica gravimetric method 8. ICP emission spectroscopy	(0.1 ~ 5.0) % (0.002 ~ 5.0) %
JIS H 1062 : 2006/AMENDMENT 1 : 2013	Methods for determination of zinc in copper and copper alloys (Amendment 1) 9. ICP emission spectroscopy	(0.01 ~ 20) %
JIS H 1071 : 1999	Methods for determination of chromium in copper and copper alloys 7. Atomic absorption method 8. ICP emission spectroscopy	(0.01 ~ 0.2) % (0.01 ~ 2.0) %

Korea Laboratory Accreditation Scheme

No. KT011

02.004 Mine and Ceramic Related Products

Test Method	Standard designation	Test range
KS E 3071 : 1993	Methods for chemical analysis of limestone 6.1 Loss on ignition 6.2 Silicon dioxide 6.3 Aluminum oxide (Volumetric analysis method) 6.7 Ferric oxide (atomic absorption spectrometry) 6.8 Calcium oxide 6.10 Magnesium oxide (atomic absorption spectrometry)	(0.10 ~ 50) % (0.10 ~ 15.0) % (0.10 ~ 5.00) % (0.02 ~ 2.0) % (29.0 ~ 55.8) % (0.01 ~ 10.0) %
KS E 3075 : 2002	Method for X-ray fluorescence spectrometric analysis of limestone and dolomite Silicon dioxide Aluminum oxide Calcium oxide Magnesium oxide Ferric oxide	(0.10 ~ 15.0) % (0.05 ~ 5.00) % (29.0 ~ 55.8) % (0.10 ~ 22.0) % (0.05 ~ 2.00) %
KS L 5120 : 2004	Methods for chemical analysis of cements 8. Determination of loss on ignition method 10. Silica quantitative methods 11. Aluminum oxide quantitative methods 12. Oxidized iron (III) quantitative methods 13. Calcium oxide quantitative methods 14. Magnesium oxide quantitative methods 15. Sulfuric anhydride quantitative methods	(0.1 ~ 10) % (0.1 ~ 30) % (0.01 ~ 10) % (0.01 ~ 10) % (0.3 ~ 70) % (0.01 ~ 10) % (0.1 ~ 10) %
KS L 5405 : 2016	Fly ash 8.1 Silicon dioxide	(0.1 ~ 80) %

Korea Laboratory Accreditation Scheme

No. KT011

02.004 Mine and Ceramic Related Products

Test Method	Standard designation	Test range
	8.2 Moisture	(0.1 ~ 10) %
	8.3 Loss on ignition	(0.1 ~ 10) %
KS L 9003 : 2015	Methods for chemical analysis of gypsum 10. Aluminum oxide + iron oxide (III) of quantitative methods 11. Iron oxide (III) of quantitative methods 11.2 EDTA titration 11.4 Atomic absorption spectrometry 12. Calcium oxide quantitative methods 12.2 EDTA titration 13. Magnesium oxide quantitative methods 13.2 Atomic absorption spectrometry 14. sulfur trioxide quantitative methods 19. Total phosphate acid quantitative methods 19.3 Molybdc acid absorption spectrophotometry	 (0.01 ~ 10) % 0.1 % More than 1.0 % Below (0.3 ~ 60) % (0.1 ~ 5.0) % (0.1 ~ 65) % 0.01 % More than
KS L 9004 : 2012	Chemical analysis of limes 7.1 Determination of loss on ignition method 7.4 Silicon oxide quantitative methods 7.5 Aluminum oxide quantitative	 (0.1 ~ 10) % (0.1 ~ 10) %

Korea Laboratory Accreditation Scheme

No. KT011

02.004 Mine and Ceramic Related Products

Test Method	Standard designation	Test range
	methods 7.5.1 EDTA titration 7.5.2 Gravimetric method 7.6 Oxidized iron quantitative methods 7.6.2 EDTA titration 7.7 Calcium oxide quantitative methods 7.7.1 EDTA titration 7.8 Magnesium oxide quantitative methods 7.9 Sulfur trioxide quantitative methods 7.12 Phosphorus pentoxide quantitative methods 7.12.1 Absorption Spectrophotometry	(0.01 ~ 5.0) % (0.01 ~ 5.0) % (0.01 ~ 5.0) % (50.0 ~ 98) % (0.01 ~ 10) % (0.1 ~ 2.0) % (0.01 ~ 2.0) %
KS F 2545 : 2002	Testing method for potential reactivity of aggregates(Chemical method) 9. Quantitative methods of dissolved silica 9.2 spectrophotometry method 10. Decrease in the concentration of alkali	10 mmol/L 10 mmol/L
ASTM C 114-15	Standard Test Methods for Chemical Analysis of Hydraulic Cement 8. Silicon Dioxide 10. Ferric Oxide 15. Calcium Oxide 16. Magnesium Oxide 17. Sulfur 17.1 Sulfur Trioxide 18. Loss on Ignition	(0.1 ~ 50) % (0.1 ~ 10) % (0.3 ~ 70) % (0.1 ~ 20) % (0.01 ~ 3) % (0.1 ~ 10) %
ASTM D 7582-15	Standard Test Methods for Proximate Analysis of Coal and Coke by Macro Thermogravimetric Analysis Moisture Ash Volatile	(1.29 ~ 21.66) % (2.93 ~ 16.73) % (39.5 ~ 46.42) %

Korea Laboratory Accreditation Scheme

No. KT011

02.004 Mine and Ceramic Related Products

Test Method	Standard designation	Test range
EPA-600/R-93-116 : 1993	Method for the Determination of Asbestos in Bulk Building Materials 2.1 Stereomicroscopic Examination 2.2 Polarized Light Microscopy 2.3 Gravimetry	0.25 %
EPA-600/M-82-020 : 1982	Interim Method for the Determination of Asbestos in Bulk Insulation Samples 1. Polarized Light Microscopy	0.25 %

02.011 Other reagents

Test Method	Standard designation	Test range
KS M 1108 : 2012	Bleaching powder and high test hypochlorite	99.0 % Below
KS M 1112 : 2016	Hydrogen peroxide	90.0 % Below
KS M 1118 : 2010	Ferric chloride aq.	50.0 % Below
KS M 1206 : 2010	Hydrochloric acid	40.0 % Below
KS M 1207 : 2012	Nitric Acid	99.9 % Below
KS M 1403 : 2008	Sodium hydroxide	99.9 % Below
KS M 1301 : 2012	Silver nitrate	99.9 % Below
KS M 1315 : 2012	Ferric oxide for ferrite	99.9 % Below
KS M 1407 : 2010	Sodium phosphate	99.9 % Below
KS M 1411 : 2012	Aluminium sulfite	30.0 % Below
KS M 1415 : 2002	Sodium silicate liquid	50.0 % Below

Korea Laboratory Accreditation Scheme

No. KT011

02.011 Other reagents

Test Method	Standard designation	Test range
KS M 1510 : 2012	Poly aluminium chloride	30.0 % Below
KS M 1610 : 2016	Copper sulfate for industrial use(II)	99.9 % Below
KS M 1611 : 2012	Phosphoric acid	99.9 % Below
KS M 8037 : 2005	Calcium chloride dihydrate	103.0 % Below
KS M 8165 : 2004	Antimony trioxide	99.9 % Below
The Ministry of Environment Notice No. 2013 - 188	Standard specification for water treatment reagents.	
	I . Coagulants	
	1. Poly Aluminum Chloride	30.0 % Below
	2. Aluminum Sulfate	30.0 % Below
	4. Poly Aluminum Sulfate Silicate	30.0 % Below
	5. Poly Aluminum Hydroxy Chloro Silicate	30.0 % Below
	6. Ferric Sulfate	30.0 % Below
	7. Liquid Ferric Chloride	30.0 % Below
	9. Poly Aluminum Hydroxy Chloro Sulfate	30.0 % Below
	II . sterilization Disinfectant	
	1. High Test Hypochlorite	95.0 % Below
	3. Sodium Hypochlorite	30.0 % Below
	III . Corrosion inhibitor	90.0 % Below
	IV . Other water treatment reagents	
	1. Calcium Hydroxide, Slaked Lime	99.9 % Below
8. Stabilized chlorine dioxide	30.0 % Below	

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
KS A 0063 : 2015	Method for specification of colour differences for opaque materials	Min. 0.01
KS A 0531 : 2016	Viscosity of liquid-method of measurement 9. Method of viscosity by single cylindrical rotational viscometer	1 mPa.s ~ 2 000 000 mPa.s
KS D 8502 : 2010	Liquid epoxy resin paints for water works and method of coating 7.4.13 Except leach test	Drying time : Min. 1 min Non-volatile content in paints : 0.1 % ~ 100%
KS F 2274 : 2002	Recommended practice for accelerated artificial exposure of plastics building materials 6.1 Exposure to xenon-arc sources 6.2 Exposure to fluorescent UV lamp 6.3 Exposure to open flamed carbon-arc lamp	- - -
KS M 0011 : 2013	Method for determination of pH of aqueous solutions	0.1 ~ 14
KS M 5000 : 2014	Testing method for organic coatings and their related materials 2021 : Testing method for skinning of paint, varnish, lacquer and related materials 2031 : Testing method for storage stability of paint, varnish, lacquer and related materials 2041 : Testing method for odor of paint, varnish, lacquer, and related materials 2051 : Testing method of appearance for transparent liquids(coating materials) 2111 : Testing method for pigment content of organic coating materials 2112 : Testing method for non-volatile vehicle in organic	- - - - 0.1 % ~ 100% 0.1 % ~ 100%

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
	coating materials	
	2122 : Testing method of consistency for pigmented material(Krebs-stormer viscosimeter)	49 K.U ~ 141 K.U
	2141 : Testing method for fineness of grind	1 N.S ~ 8 N.S
	2151:Testing method for coarse particles in synthetic vehicle enamel and lacquers	0.1 % ~ 100 %
	2221: Method of absorption for organic coating materials	-
	2261:Testing method for water in paint	0.1 % ~ 100 %
	2311:Testing method of reducibility and dilution stability for organic materials	-
	2411:Testing method for brushing properties of paint, varnish, lacquer and related materials	-
	2412:Testing method for spraying properties of paint, varnish, lacquer and related materials	-
	2511:Testing method of drying time(vanishes, lacquers, enamels and waterpaints)	Min. 1 min
	2512:Testing method of drying time (oil-base paint)	Min. 1 min
	3011:Testing method of color for pigmented coatings	-
	3031:Testing method for lightness index difference of paint and color	0.1 ~ 10
	3121:Testing method for 45°.0° directional reflectance of organic coating materials	0.1 % ~ 100 %
	3211:Testing method for yellowness index of dried film of paint, varnish, lacquer and related materials	0.01 ~ 1.00

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
	3231: Testing method for accelerated weathering	-
	3321: Testing method for abrasion resistance (falling sand)	0.01 $\mu\text{m/L}$ ~ 5.00 $\mu\text{m/L}$
	3331: Testing method of flexibility for organic coating materials	-
	3351 : Testing method for washability of paint	-
	3421 : Testing method for heat resistance of dried film of paint, varnish, lacquer and related	-
	6011: Testing method for Flash point of Varnish and volatile thinners(Tag closed tester)	0.1 $^{\circ}\text{C}$ ~ 150 $^{\circ}\text{C}$
	6012: Testing method for Flash point of lacquer solvent and diluents of low flash point (tag closed cup)	0.1 $^{\circ}\text{C}$ ~ 150 $^{\circ}\text{C}$
	6021: Testing method for distillation of volatile petroleum solvent	1 $^{\circ}\text{C}$ ~ 300 $^{\circ}\text{C}$
	6022: Testing method for distillation of volatile solvents for organic coating materials	1 $^{\circ}\text{C}$ ~ 300 $^{\circ}\text{C}$
	6023: Testing method for distillation of aromatic hydrocarbon	1 $^{\circ}\text{C}$ ~ 300 $^{\circ}\text{C}$
	6031: Testing method for aniline point	0.1 $^{\circ}\text{C}$ ~ 100 $^{\circ}\text{C}$
	6032: Testing method for mixed aniline point	0.1 $^{\circ}\text{C}$ ~ 100 $^{\circ}\text{C}$
	6041: Testing method for specific gravity solvents and thinners	
	4. Test method by hydrometer	0.01 ~ 2.00
	6051: Testing method for spot test for thinners and solvents	-
	6111: Testing method for copper corrosion	-
	6121: Testing method for water in solvents and thinners by turbidity method	0.1 % ~ 100 %
	6141: Testing method of acidity for lacquer solvent and diluent	Min. 0.01 KOHmg/g

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
KS M ISO 16862 : 2011	Paints and varnishes – Evaluation of sag resistance	25.4 μm ~ 1 524 μm
KS M 6010 : 2014	Synthetic resin emulsion paint r) Except must resistance	Consistency : 49 K.U ~ 141 K.U Non-volatile content : 0.1 % ~ 100 % Pigment content: 0.1 % ~ 100 % Drying time : Min. 1 min 45°,0° directional reflectance : 0.1 % ~ 100 % Specular gloss : 0.1 ~ 160 Contrast ratio : 0.1 % ~ 100 % Wet opacity : 0.1 % ~ 2 % Adhesion strength : Min. 0.1 N/cm ²
KS M 6020 : 2014	Solvent-based paints	Pigment content: 0.1 % ~ 100% Non-volatile vehicle : 0.1 % ~ 100% Specular gloss : 0.1 ~ 160 Contrast ratio : 0.1 % ~ 100 % 45°,0° directional reflectance : 0.1 % ~ 100 % Drying time : Min. 1 min Non-volatile content : 0.1 % ~ 100 %
KS M 6030 : 2014	Rust Preventing Paint (Except fourth, fifth grade) The first grade c) Except original red lead	Pigment content: 0.1 % ~ 100 % Non-volatile vehicle : 0.1 % ~ 100 % Drying time :

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
	d) Except original iron oxide The second grade b) Except zinc chromate c) Except zinc oxide d) Except titanium dioxide e) Except iron oxide The third grade b) Except metallic zinc and zinc oxide	Min. 1 min Pot life : Min. 1 min Non-volatile content in mixed paints : 0.1 % ~ 100 %
KS M 6040 : 2014	Nitrocellulose lacquer	Drying time : Min. 1 min Contrast ratio : 0.1 % ~ 100 % Specular gloss : 0.1 ~ 160 Non-volatile content : 0.1 % ~ 100 %
KS M 6050 : 2014	Varnish f) Except gas test h) Except must resistance	Drying time : Min. 1 min Free from after tack : Min. 1 min Flash point : 0.1 °C ~ 150 °C Non-volatile content : 0.1 % ~ 100 % Acid value : Min. 0.01 KOHmg/g
KS M 6060 : 2014	Thinner for organic coating materials	Distillation test : 1 °C ~ 360 °C Flash point : 0.1 °C ~ 150 °C Aniline point : 0.1 °C ~ 150 °C Non-volatile material : Min. 0.001 g/100mL Acid value : Min. 0.01 KOHmg/g

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
KS M 6070 : 2014	Powder Coatings The first, second grade d) Except particle size distribution k) Except cathodic disbondment test The third grade d) Except particle size distribution m) 2) Except outdoor weathering test	Color difference : Min. 0.01 Specular gloss : 0.1 ~ 160
KS M 6080 : 2014	Traffic Paint The first, second, third grade 5.1.19 Except lead 5.1.20 Except cadmium 5.1.21 Except glass beads spread test 5.1.22 Except adhesion rate of glass beads 5.1.23 Except VOC 5.1.24 Except wear simulator test The fourth, fifth grade(addition) 5.2.3 Except softening point 5.2.4 Except difference in softening point 5.2.5 Except indentation 5.2.6 Except cold impact resistance 5.2.9 Except chromaticity 5.2.13 Except lead 5.2.14 Except cadmium 5.2.15 Except VOC 5.2.16 Except wear simulator test	Abrasion resistance : 0.1 mg ~ 220 g 45°,0° directional reflectance : 0.1 % ~ 100 % Contrast ratio : 0.1 % ~ 100 % Non-volatile content : 0.1 % ~ 100 % Pigment content: 0.1 % ~ 100 %
KS M ISO 1519 : 2012	Paints and varnishes-Bend test (Cylindrical Mandrel)	-
KS M ISO 1520 : 2012	Paints and varnishes-Cupping test	-
KS M ISO 2409 : 2013	Paints and varnishes-Cross cut Test	-
KS M ISO 2431 : 2012	Paints and varnishes—Determination of flow time by use of flow cups	Min. 1 s
KS M ISO 2592 : 2007	Determination of flash and fire points—Cleveland open cup method	1 °C ~ 360 °C
KS M ISO 2811-1 : 2012	Paints and varnishes-Determination of density-Part 1 : Pycnometer Method	0.01 g/cm ³ ~ 4.00 g/cm ³
KS M ISO	Paints and varnishes—Determination	-

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
2812-1 : 2012	of resistance to liquids – Part 1 : Immersion in liquids other than water	
KS M ISO 2812-2 : 2012	Paints and varnishes – Determination of resistance to liquid – Part 2 : Water immersion method	-
KS M ISO 2813 : 2014	Paints and varnishes – Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°	0.1 ~ 160
KS M ISO 2814 : 2002	Paints and varnishes – Comparison of contrast ratio (hiding power) of paints of the same type and colour	0.1 % ~ 100 %
KS M ISO 3248 : 2007	Paints and varnishes – Determination the effect of heat	-
KS M ISO 3680 : 2008	Paints, varnishes, petroleum and related products – Flash/no flash test – Rapid equilibrium method	-
KS M ISO 3251 : 2011	Paints, varnishes and plastics - Determination of non-volatile - matter content	0.1 % ~ 100 %
KS M ISO 4624 : 2012	Paints and varnishes - Pull-off test for adhesion	0.01 MPa ~ 20 MPa
KS M ISO 14680-1 : 2007	Paints and varnishes - Determination of pigment content - Part 1 : Centrifuge method	0.1 % ~ 100 %
KS M ISO 14680-2 : 2007	Paints and varnishes – Determination of pigment content – Part 2 : Ashing method	0.1 % ~ 100 %
KS M ISO 15184 : 2013	Paints and varnishes – Determination of film hardness by pencil test	6B ~ 9H
KS M ISO 3679 : 2003	Paints, varnishes, petroleum and related products – Determination of Flash point – Rapid equilibrium method	-30 °C ~ 100 °C
KS M ISO 3856-1 : 2007	Paints and varnishes – Determination of “soluble” metal content – Part	(0.05 ~ 5) %

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
	1 : Determination of lead content – Flame atomic absorption spectrometric method and dithizone spectrophotometric method 3. Flame atomic absorption spectrometry	
KS M ISO 3856-2 : 2007	Paints and varnishes – Determination of “soluble” metal content – Part 2 : Determination of antimony content – Flame atomic absorption spectrometric method and Rhodamine B spectrophotometric method 3. Flame atomic absorption spectrometry	(0.05 ~ 5) %
KS M ISO 3856-3 : 2007	Paints and varnishes – Determination of “soluble” metal content – Part 3 : Determination of barium content – Flame atomic emission spectrometric method	(0.05 ~ 5) %
KS M ISO 3856-4 : 2007	Paints and varnishes – Determination of “soluble” metal content – Part 4 : Determination of cadmium content – Flame atomic absorption spectrometric method and polarographic method 3. Flame atomic absorption spectrometry	(0.05 ~ 5) %
KS M ISO 3856-5 : 2007	Paints and varnishes – Determination of “soluble” metal content – Part 5 : Determination of hexavalent chromium content of the pigment portion of the liquid paint or the paint in powder form – Diphenylcarbazide spectrophotometric method	(0.05 ~ 5) %
KS M ISO 3856-6	Paints and varnishes – Determination of	(0.05 ~ 5) %

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
: 2007	“soluble” metal content – Part 6 : Determination of total chromium content of the liquid portion of the paint – Flame atomic absorption spectrometric method	
KS M ISO 3856-7 : 2007	Paints and varnishes – Determination of “soluble” metal content – Part 7 : Determination of mercury content of the pigment portion of the paint and of the liquid of water-dilutable paints – Flameless atomic absorption spectrometric method	(0.005 ~ 0.05) %
KS M ISO 6503 : 2007	Paints and varnishes – Determination of total lead – Flame atomic absorption spectrometric method	(0.01 ~ 2) %
ASTM B117-16	Standard Practice for Operating Salt Spray(Fog) Apparatus	-
ASTM D56-16a	Standard Test Method for Flash Point by Tag Closed Cup Tester	0.1 °C ~ 150 °C
ASTM D86-16a	Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure	1 °C ~ 360 °C
ASTM D95-13e1	Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation	0.1 % ~ 100 %
ASTM D522/D522M-13	Standard Test Method for Mandrel Bend Test of Attached Organic Coatings	-
ASTM D523-14	Standard Test Method for Specular Gloss	0.1 ~ 160
ASTM D562-10 (2014)	Standard Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer	49 KU ~ 141 KU
ASTM D611-12(2016)	Standard Test Methods for Aniline Point and Mixed Aniline Point of	0.1 °C ~ 100 °C

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
	Petroleum Products and Hydrocarbon Solvents(Method A)	
ASTM D870-15	Standard Practice for Testing Water Resistance of Coatings Using Water Immersion	-
ASTM D1210-05 (2014)	Standard Test Method for Fineness of Dispersion of Pigment-Vehicle Systems by Hegman-Type Gage	1 N.S ~ 8 N.S
ASTM D1308-02 (2013)	Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes	-
ASTM D1475-13	Standard Test Method for Density of Liquid Coatings, Inks, and Related Products	0.01 g/mL ~ 4.00 g/mL
ASTM D1640 /D1640M-14	Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings	Min. 1 min
ASTM D1849-95(2014)e1	Standard Test Method for Package Stability of Paint	-
ASTM D2196-15	Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational Viscometer	1 mPa.s ~ 2 000 000 mPa.s
ASTM D2243-95 (2014)	Standard Test Method for Freeze-Thaw Resistance of Water-Borne Coatings	-
ASTM D2244-16	Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates	Min. 0.01
ASTM D2247-15	Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity	-
ASTM D2337-01(2014)	Standard Test Method for Freeze-Thaw Stability of Multicolor Lacquers	-

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
ASTM D2369-10(2015)e1	Standard Test Method for Volatile Content of Coatings	0.1 % ~ 100 %
ASTM D2371-85(2010)	Standard Test Method for Pigment Content of Solvent-Reducible Paints	0.1 % ~ 100 %
ASTM D2697-03 (2014)	Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings	0.1 % ~ 100 %
ASTM D2794-93(2010)	Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation(Impact)	-
ASTM D2805-11	Standard Test Method for Hiding Power of Paints by Reflectometry	0.1 % ~ 100 %
ASTM D3359-09e2	Standard Test Methods for Measuring Adhesion by Tape Test	-
ASTM D3363-05(2011)e2	Standard Test Method for Film Hardness by Pencil Test	6B ~ 9H
ASTM D4400-99(2012)e1	Standard Test Method for Sag Resistance of Paints Using a Multinotch Applicator	25.4 μm ~ 1 524 μm
ASTM D4541-09e1	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers	0.01 MPa ~ 20 MPa
ASTM D4587-11	Standard Practice for Fluorescent UV-Condensation Exposures of Paint and Related Coatings	-
ASTM E70-07 (2015)	Standard Test Method for pH of Aqueous Solutions With the Glass Electrode	0.1 ~ 14
ASTM D3960-05 (2013)	Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings	-

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
US CPSC 16 CFR 1303	Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead Containing Paint	5 mg/kg
ASTM E 1613-12	Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry(ICP-AES), Flame Atomic Absorption Spectrometry(FAAS), or Graphite Furnace Atomic Absorption Spectrometry(GFAAS) Techniques	5 mg/kg
ASTM E 1645-16	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis	5 mg/kg
JIS K 5601-4-1 : 2012	Testing methods for paint components - Part 4 : Analysis for components emitted from film - Section 1 : Formaldehyde 3. HPLC	-
JIS D 0205 : 1987	Test method of weatherability for automotive parts 5.4 Accelerated weathering test	-
JIS K 5600-2-2 : 1999	Testing methods for paints-Part 2 : Characteristics and stability of paints - Section 2 : Viscosity 5. Stormer-Type Viscometer	49 K.U ~ 141 K.U
JIS K 5600-2-4 : 2014	Testing methods for paints-Part 2 : Characteristics and stability of paints - Section 4 : Density	0.01 g/mL ~ 4.00 g/mL
JIS K 5600-2-5 : 1999	Testing methods for paints-Part 2 : Characteristics and stability of paints - Section 5 : Fineness of grind	1 μm ~ 100 μm
JIS K 5600-2-6 : 2016	Testing methods for paints-Part 2 : Characteristics and stability of paints - Section 6 : Pot life	Min. 1 min

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
JIS K 5600-4-1 : 1999	Testing methods for paints-Part 4 : Visual characteristics of film - Section 1 : Hiding power (for light- coloured paints)	0.1 % ~ 100 %
JIS K 5600-4-6 : 1999	Testing methods for paints-Part 4 : Visual characteristics of film - Section 6 : Colorimetry(Calculation of colour differences)	Min. 0.01
JIS K 5600-4-7 : 1999	Testing methods for paints-Part 4 : Visual characteristics of film - Section 7 : Specular gloss	0.1 ~ 160
JIS K 5600-5-4 : 1999	Testing methods for paints-Part 5 : Mechanical property of film-Section 4 : Scratch hardness (Pencil method)	6B ~ 9H
JIS K 5600-5-6 : 1999	Testing methods for paints-Part 5 : Mechanical property of film - Section 6 : Adhesion test(Cross-cut test)	-
JIS K 5600-6-1 : 2016	Testing methods for paints-Part 6 : Chemical property of film -Section 1 : Resistance to liquids (General methods)	-
JIS K 5600-6-2 : 2016	Testing methods for paints-Part 6 : Chemical property -Section 2 : Resistance to liquids(Water immersion method)	-
JIS K 5600-6-3 :1999 /AMENDMENT 1 : 2006	Testing methods for paints -Part 6 : Chemical property of film - Section 3 : The effect of heat (Amendment 1)	-
JIS K 5600-7-2 : 1999	Testing methods for paints-Part 7 : Long-period performance of film- Section 2 : Resistance to humidity (Continuous condensation)	-
JIS K 5601-1-2 : 2008	Testing methods for paint components - Part 1 : General rule-Section 2 : Determination of non-volatile matter content	0.1 % ~ 100 %

Korea Laboratory Accreditation Scheme

No. KT011

02.014 Paints

Test Method	Standard designation	Test range
JIS K 5601-2-1 : 1999	Testing methods for paint components - Part 2 : Component analysis in solvent soluble matter -Section 1 : Acid value(titrimetric method)	Min. 0.01 KOHmg/g
JIS K 5601-2-3 : 1999	Testing methods for paint components - Part 2 : Component analysis in solvent soluble matter - Section 3 : Boiling range	1 °C ~ 360 °C
JIS K 5665 : 2016	Traffic paint (Amendment 1) 8.8 Softening point (Ring-and-Ball Apparatus) 8.12 Tire adhesive 8.17 Abrasion Resistance 8.24 Glass bead content	0.5 °C ~150 °C - 0.1 mg ~ 220 g 0.1 % ~ 100 %
JIS Z 8730 : 2009	Colour specification - Colour differences of object colours	Min. 0.01
ISO 11890-1 : 2007	Paints and varnishes -- Determination of volatile organic compound (VOC) content -- Part 1 : Difference method	-
ISO 11890-2 : 2013	Paints and varnishes -- Determination of volatile organic compound (VOC) content -- Part 2 : Gas-chromatographic method	-

02.016 Petroleum based products

Test Method	Standard designation	Test range
KS M 1991 : 2016	Determination of phthalates contents in polymer materials GC-MS analysis LC-MS analysis Di-siobutyl phthalate(DIBP), Di-n-butyl phthalate(DBP), Butyl benzyl phthalate(BBP), Di(ethylhexyl) phthalate(DEHP), Di-n-octyl phthalate(DNOP), Di-isononyl phthalate(DINP), Di-iso-decyl phthalate(DIDP)	5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.016 Petroleum based products

Test Method	Standard designation	Test range
KPS M 1011 : 1999	Biodisintegrable aliphatic polyester/PE film for garbage bag 7.8 aliphatic polyester contents	0.1 %
KS M ISO 14855-1 : 2013	Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions - Method by analysis of evolved carbon dioxide - Part 1: General method	1 %
EPA 8061A : 1996	PHTHALATE ESTERS BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD) DBP(Dibutyl phthalate) DMP(Dimethyl phthalate) BBP(Benzyl n-butyl phthalate) DEP(Diethyl phthalate) DnOP(Di-n-octyl phthalate) DEHP(Di(2-ethylhexyl)phthalate)	5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg
EPA 8315A : 1996	DETERMINATION OF CARBONYL COMPOUNDS BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) Formaldehyde	5 mg/kg
ASTM D 4419-90 (2015)	Standard Test Method for Measurement of Transition Temperatures of Petroleum Waxes by Differential Scanning Calorimetry (DSC)	15 °C ~ 150 °C
ASTM D 4591-07(2012)	Standard Test Method for Determining Temperatures and Heats of Transitions of Fluoropolymers by Differential Scanning Calorimetry	100 °C ~ 360 °C
ASTM D 5028-09	Standard Test Method for Curing Properties of Pultrusion Resins by Thermal Analysis	20 °C ~ 200 °C

Korea Laboratory Accreditation Scheme

No. KT011

02.016 Petroleum based products

Test Method	Standard designation	Test range
ASTM D 5296-11	Standard Test Method for Molecular Weight Averages and Molecular Weight Distribution of Polystyrene by High Performance Size-Exclusion Chromatography	2 000 g/mol ~ 2 000 000 g/mol
ASTM D 6474-12	Standard Test Method for Determining Molecular Weight Distribution and Molecular Weight Averages of Polyolefins by High Temperature Gel Permeation Chromatography	2 000 g/mol ~ 2 000 000 g/mol
ASTM D 6579-11 (2015)	Standard Practice for Molecular Weight Averages and Molecular Weight Distribution of Hydrocarbon, Rosin and Terpene Resins by Size-Exclusion Chromatography	2 000 g/mol ~ 2 000 000 g/mol
ASTM E1131 : 08(2014)	Standard Test Method for Compositional Analysis by Thermogravimetry	50 °C ~ 1 000 °C
ASTM E 1269-11	Standard Test Method for Determining Specific Heat Capacity by Differential Scanning Calorimetry	-70 °C ~ 400 °C
ASTM E 1641-16	Standard Test Method for Decomposition Kinetics by Thermogravimetry Using the Ozawa/Flynn/Wall Method	100 °C ~ 1 000 °C
EPA 8100 : 1986	POLYNUCLEAR AROMATIC HYDROCARBONS Benzo(a)pyrene	0.5 mg/kg
EPA 8270D : 2014	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) DEHP	5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.016 Petroleum based products

Test Method	Standard designation	Test range
KS I ISO 6974-6 : 2008	Natural gas - Determination of composition with defined uncertainty by gas chromatography - Part 6 : Determination of hydrogen, helium, oxygen, nitrogen, carbon dioxide and C1 to C8 hydrocarbons using three capillary columns	O ₂ : (0.007 ~ 5) % N ₂ : (0.007 ~ 40) % CO ₂ : (0.001 ~ 10) % C1 : (40 ~ 100) % C2 : (0.002 ~ 15) % C3 : (0.001 ~ 5) % C4 : (0.000 1~1) % C5 ~ C6 : (0.000 1 ~ 0.5) %
KS I ISO 6976 : 2007	Natural gas -- Calculation of calorific values, density, relative density and Wobbe index from composition	-
KS I ISO 19739 : 2010	Natural gas - Determination of sulfur compounds using gas chromatography	(0.000 03~0.03) %
KS E 3707 : 2016	Determination of calorific value of coal and coke	(13 800~34 800) J/g
The Ministry of Environment Notice No.2014-135	Test & analysis methods for quality examination of Solid Refuse Fuel products-calorific value	(13 800~34 800) J/g
KS M 2057 : 2011	Crude petroleum and petroleum products - Determination and estimation of heat of combustion	(13 800~34 800) J/g
KS M 2418 : 2006	Standard Test Methods for Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricant	C : (75~87) % H : (9~16) % N : (0.1~2.0) %

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
The Notice No. 2015-07 of the ministry of food and drug safety	Standards and Specifications for Utensils, Containers and Packaging for Food Products III. Specification for Each Material 1. Synthetic Polymer 1-1 Poly vinyl chloride(PVC) Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Vinyl Chloride	0.1 mg/kg
	Dibutyltin Compound	5 mg/kg
	Cresol Esters of Phosphoric Acid	0.1 mg/kg
	Di-n-butylphthalate	0.15 mg/L
	benzyl-n-butylphthalate	3.0 mg/L
	din-octylphthalate	0.5 mg/L
	diisodecylphthalate and diisonoylphthalate	0.9 mg/L
	di-(2-ethylhexyl)phthalate	0.75 mg/L
	di-(2-ethylhexyl)adipate	1.8 mg/L
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-2 Polyethylene(PE) and Polypropylene(PP) Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-Hexene	1.5 mg/L
	1-Octene	7 mg/L
	1-3 Polystyrene(PS) Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Volatile organic compounds	50 mg/kg
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
Total Residue on Evaporation	3 mg/L	
1-4 Poly vinylidene chloride(PVDC)		

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Vinylidene chloride	0.6 mg/kg
	Ba	10 mg/kg
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-5 Poly ethyleneterephthalate(PET)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Sb	0.02 mg/L
	Terephthalic acid	0.75 mg/L
	Isophthalic acid	0.5 mg/L
	Ge	0.01 mg/L
	1-6 Phenol-formaldehyde resin(PF)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Total Residue on Evaporation	3 mg/L
	Lead	0.1 mg/L
	Phenol	0.5 mg/L
	Formaldehyde	0.4 mg/L
	1-7 Melamine-formaldehyde resin(MF)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Total Residue on Evaporation	3 mg/L
	Formaldehyde	0.4 mg/L
	Phenol	0.5 mg/L
	Melamine	3 mg/L
	1-8 Urea-formaldehyde resin(UF)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Lead	0.1 mg/L
	Total Residue on Evaporation	3 mg/L
	Phenol	0.5 mg/L
	Formaldehyde	0.4 mg/L
	1-9 Polyacetal, polyoxymethylene(POM)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Total Residue on Evaporation	3 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Formaldehyde	0.4 mg/L
	1-10 Acrylic Resin	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Methylmethacrylate	0.6 mg/L
	1-11 Polyamide(PA)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Caprolactam	1.5 mg/L
	4.4-methylenedianilie	0.001 mg/L
	Ethylenediamine	6 mg/L
	Hexamethylenediamine	1.2 mg/L
	Lauro lactam	2.5 mg/L
	1-12 Polymethylpentene(PMP)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Total Residue on Evaporation	3 mg/L
	4-methyl-1-pentene	0.025 mg/L
	1-13 Polycarbonate(PC)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)	As sum 1.0 mg/L Bisphenol A 0.3 mg/L
	Diphenylcarbonate	0.025 mg/L
	Amines	As sum 0.1 mg/kg
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-14 Poly vinylalcohol(PVA)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Vinyl acetate	6 mg/L
	1-15 Polyurethane(PU)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Isocyanate	0.05 mg/L
	4.4-methylenedianiline	0.005 mg/L
	1-16 Polybutene-1(PB-1)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	1-17 Acrylonitrile-butadiene-styrene copolymer(ABS) and Acrylonitrile-styrene copolymer(AS)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Volatile organic compounds	50 mg/kg
	1.3-butadiene	0.1 mg/kg
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Acrylonitrile	0.01 mg/L
	1-18 Polymethacrylstyrene(MS)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Volatile organic compounds	50 mg/kg
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Methyl methacrylate	3 mg/L
	1-19 Poly butyleneterephthalate(PBT)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Terephthalic acid	3.5 mg/L
	Isophthalic acid	2.5 mg/L
	1.4-butanediol	2.5 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/ L
	1-20 Polyarylsulfone(PASF)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)	As sum 1.0 mg/L
	4.4-Dichlorodiphenylsulfone	Bisphenol A 0.3 mg/L
	1-21 Polyarylate(PAR)	0.025 mg/L
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Terephthalic acid	3.5 mg/L
	Isophthalic acid	2.5 mg/L
	Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)	as sum 1.0 mg/L
	1-22 Hydroxybutyl polyester(HBP)	Bisphenol A 0.3 mg/L
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-23 Polyacrylonitrile(PAN)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Acrylonitrile	0.01 mg/L
	1-24 Fluorocarbon resin(FR)	
	Pb, Cd, Hg, Cr6+	1 mg/kg, each
	Pb	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Total Residue on Evaporation	3 mg/L
	1-25 Poly phenylene ether(PPE)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Volatile organic compounds	50 mg/kg
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-26 Ionomer resin	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-27 Ethylene-vinylacetate copolymer(EVA)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Vinyl acetate	6 mg/L
	1-28 Methylmethacrylate-acrylonitrile-butadiene-styrene copolymer(MABS)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Volatile organic compounds	50 mg/kg
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Methyl methacrylate	3 mg/L
	Acrylonitrile	0.01 mg/L
	1-29 Poly(ethylenenaphthalate)(PEN)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-30 Epoxy Resin	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Amines	0.1 mg/kg
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
		as sum
	Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)	1.0 mg/L Bisphenol A 0.3 mg/L
	Bisphenol F diglycidyl ether(including bisphenol F diglycidyl ether dichloride and bisphenol F diglycidyl ether dihydrate)	0.05 mg/L
	Bisphenol A diglycidyl ether(including bisphenol A diglycidyl ether dichloride and bisphenol A diglycidyl ether dihydrate)	0.05 mg/L
	Epichlorohydrine	0.25 mg/L
	4.4-methylenedianiline	0.005 mg/L
	1-31 Poly(phenylenesulfide)(PPS)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1.4-Dichlororbenzene	6 mg/L
	1-32 Poly ethersulfone(PES)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	4.4-dichlorodiphenylsulfone	0.025 mg/L
	4.4-dihydroxydiphenylsulfone	0.025 mg/L
	1-33 Poly cyclohexane-1,4-dimethylene terephthalate(PCT)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Sb	0.025 mg/L
	Terephthalic acid	3.5 mg/L
	Isophthalic acid	2.5 mg/L
	1-34 Polyimide(PI)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-35 Polyetheretherketone(PEEK)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Hydroquinone	0.3 mg/L
	1-36 Polylactide(poly lactic acid, PLA)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1-37 Butylenesuccinate-adipate copolymer (PBSA)	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	1.4-Butanediol	2.5 mg/L
	1-38 Crosses-linked polyester resin	
	Lead	0.1 mg/L
	Consumption of Potassium Permanganate	1 mg/L
	Total Residue on Evaporation	3 mg/L
	Terephthalic acid	3.5 mg/L
	Isophthalic acid	2.5 mg/L
	2. Cellophane	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	Arsenic	0.05 mg/L
	Total Residue on Evaporation	3 mg/L
	3. Rubber	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	2-Mercaptoimidazoline	-
	Phenol	2.5 mg/L
	Formaldehyde	2.0 mg/L
	Zinc	0.5 mg/L
	Total Residue on Evaporation	3 mg/L
	1.3-butadiene	0.1 mg/kg
	N-Nitrosamines	0.001 mg/kg
	N-Nitrosatable substances	0.001 mg/kg
	4. Paper or Processed Paper	
	Lead, Cadmium, Mercury, Hexavalent Chromium	1 mg/kg, each
	Lead	0.1 mg/L
	PCBs	0.5 mg/kg
	Arsenic	0.05 mg/L
	Formaldehyde	2.0 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Fluorescence Whitening Agent	-
	5. Metal	
	Lead	0.1 mg/L
	Cadmium	0.05 mg/L
	Arsenic	0.1 mg/L
	Nickel	0.05 mg/L
	Hexavalent Chromium	0.05 mg/L
	Total Residue on Evaporation	3 mg/L
	Formaldehyde	2.0 mg/L
	Vinyl chloride	0.025 mg/L
	Epichlorohydrine	0.25 mg/L
	Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)	As sum 1.0 mg/L Bisphenol A 0.3 mg/L
	Bisphenol A diglycidyl ether (including bisphenol A diglycidyl ether dichloride and bisphenol A diglycidyl ether dihydrate)	0.05 mg/L
	Bisphenol F diglycidyl ether (including Bisphenol F diglycidyl ether dichloride and bisphenol F diglycidyl ether dihydrate)	0.05 mg/L
	4.4-methylenedianiline	0.005 mg/L
	6. Wood	
	Lead	0.1 mg/L
	Arsenic	0.05 mg/L
	Sulfur dioxide	1.28 mg/L
	Ortho-phenylphenol	3.3 mg/L
	Thiabendazole	0.9 mg/L
	Biphenyl	0.4 mg/L
	Imazalil	0.3 mg/L
	7. Glass, Ceramic, enameled and pottery	
	Lead	0.25 mg/L
	Cadmium	0.025 mg/L
	Arsenic	0.025 mg/L
	8. Starch	
	Lead, Cadmium, Mercury, Hexavalent	1 mg/kg, each

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Chromium	
	Lead	0.1 mg/L
	Arsenic	0.05 mg/L
	Formaldehyde	0.4 mg/L
	Fluorescence Whitening Agent	-
	Consumption of potassium permanganate	1 mg/L
	IV. General Test Methods for Utensils, Containers and Packaging	
	10. Antimony Test Method	
	Antimony	0.01 %
Safety-quality labeling standard Annex 3 (Notification No.2009-977 of the Korean Agency for Technology and Standards)	Domestic pressure pans and pressure pots	
	5.4.1.Synthetic Polymer	
	Phenol	-
	Formaldehyde	-
	Heavy Metal	-
	Total Residue on Evaporation	3 mg/L
	Consumption of KMnO ₄	1 mg/L
	5.4.2.Rubber	
	Lead	0.1 mg/L
	Cadmium	0.05 mg/L
	Heavy Metal	-
	Total Residue on Evaporation	3 mg/L
	Consumption of KMnO ₄	1 mg/L
	Zinc	0.1 mg/L
	5.4.3.Metal(Elution)	
	Lead	0.1 mg/L
	Cadmium	0.05 mg/L
	Arsenic	0.1 mg/L
	Nickel	0.05 mg/L
	Hexavalent Chromium	0.05 mg/L
Total Solids	3 mg/L	
Formaldehyde	0.4 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.017 Food

Test Method	Standard designation	Test range
	Vinyl Chloride	0.025 mg/L
	Epichlorohydrine	0.25 mg/L
	Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)	As sum 1.0 mg/L Bisphenol A 0.3 mg/L
	Bisphenol A diglycidyl ether (including bisphenol A diglycidyl ether dichloride and bisphenol A diglycidyl ether dihydrate)	0.05 mg/L
	Bisphenol F diglycidyl ether (including Bisphenol F diglycidyl ether dichloride and bisphenol F diglycidyl ether dihydrate)	0.05 mg/L
	4.4-methylenedianiline	0.005 mg/L

02.018 Cosmetics

Test Method	Standard designation	Test range
Notice No. 2017-12 of the Ministry of Food and Drug Safety	Cosmetic standards and testing method	
	1. Lead	2 µg/g
	2. Arsenic	1 µg/g
	3. Mercury	0.05 µg/g
	7. Methanol	0.025 % (volume fraction)
	11. Content	-
	12. pH	2 ~ 12

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
KS B 6224 : 2005	Testing methods for boiler feed water and boiler water	
	7.1 Turbidity	1 degree
	8. pH	1 ~ 14
	9. Conductivity	1 μ S/cm
	10.1 Acid consumption(pH 4.8) - M-Alkalinity	1 mg/L
	10.2 Acid consumption(pH 8.3) - P-Alkalinity	1 mg/L
	11.1 Alkali consumption(pH 8.3)	1 mg/L
	11.2 Alkali consumption(pH 4.8)	1 mg/L
	12. Hardness – Titration Method	1 mg/L
	13. Suspended Solid & evaporation residue	5 mg
	14. COD _{Mn} (100 °C)	0.2 mg/L
	15. TOC	1 mg/L
	16. Hexane extract	5 mg/L
	17. CCl ₄ extract	0.2 mg/L
	18. DO – Winkler Method	0.01 mg/L
	19. Hydrazine – p-dimethylaminobenzaldehyde Absorption photometry	0.000 5 mg
	20.1 Chloride ion - Mercury thiocyanate(II) Absorption photometry	0.02 mg
	21. Sulfite ion	0.5 mg
	22.2 Sulfate ion - Barium chromate Absorption photometry	0.05 mg
	23.1.1 Phosphate ion- Molybdenum blue (tin chloride(II)) method	0.005 mg/L
	24. Silica(SiO ₂) - Molybdenum blue Absorption photometry	0.01 mg
	25.1 Ammonium ion – Indophenol blue Absorption photometry	0.005 mg
	26.1 Na – Atomic absorption spectrophotometry	0.2 mg/L
	27.2 Ca – Atomic absorption spectrophotometry	0.2 mg/L
	28. Mg – Atomic absorption spectrophotometry	0.02 mg/L
	29.3 Cu – Atomic absorption spectrophotometry	0.2 mg/L
	30.2 Zn – Atomic absorption spectrophotometry	0.05 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	31.2 Ni – Atomic absorption spectrophotometry	0.3 mg/L
	32.4 Fe – Atomic absorption spectrophotometry	0.3 mg/L
	33.2 Al – Atomic absorption spectrophotometry	5 mg/L
KS I 3206 : 2008	Testing method for industrial water 10.1. Turbidity 11.1. Color 12. pH 13. Conductivity 14.1. Acid consumption(pH 4.8) - M-Alkalinity 14.2. Acid consumption(pH 8.3) - P-Alkalinity 15.1. Alkali consumption(pH 8.3) - total acidity 15.2. Alkali consumption(pH 4.8) - mineral acidity 16. Hardness - titration 17. Suspended Solid & evaporation residue 18. COD _{Mn} (100 °C) 19. COD _{Cr} 20. BOD 21. TOC 23.2. DO – Winkler-azide modification method 24.1. Phenols 24.2. p-cresols 25.1. Surfactants - Nonionic surfactants 26.1. Total carbonate – strontium chloride-hydrochloric acid titration 27. Hexane extract 28. CCl ₄ extract 29.4. Residual chlorine	1 degree 1 degree 1~14 1 μS/cm 1 mg/L 1 mg/L 1 mg/L 1 mg/L 1 mg/L 1 mg/L 1 mg/L 1 mg/L 1 mg/L 1 mg/L 0.1 mg/L (phenols : 0.002 5 mg/L p-cresols 0.01 mg) 0.002 mg/L 1 mg/L 5 mg/L 0.2 mg/L 0.01 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	- diethyl-p-phenylenediamine method	
	31. Hydroxyl ion(OH ⁻)	0.1 mg
	32.1. Fluoride(F ⁻) - Absorption photometry	0.004 mg
	33.1. Chloride ion(Cl ⁻) - Absorption photometry	0.02 mg
	34. Bromide ion(Br ⁻)	0.1 mg
	35.1. Iodide(I ⁻) - Absorption photometry	0.1 mg
	36.2. Cyanide - 4-Pyridine-pyrazolone method	0.000 5 mg
	37.2. Ammonium ion(NH ₄ ⁺)	
	- Absorption photometry	0.005 mg
	38. Nitrite ion(NO ₂ ⁻)	0.001 mg
	39. Nitrate ion(NO ₃ ⁻)	0.005 mg
	40.2. Organic nitrogen - Absorption photometry	0.004 mg
	41.2. T-N - UV Absorption photometry	0.005 mg/L
	42.1. Sulfide ion(S ²⁻) - Absorption photometry	0.005 mg
	43. Sulfite ion(SO ₃ ²⁻)	0.2 mg
	44.2. Sulfate ion(SO ₄ ²⁻) - barium chromate method	0.05 mg
	45.1.1. Phosphate ion & phosphide - molybdenum blue(tin(II) chloride) extraction method	0.005 mg each
	46. Silica(SiO ₂) - molybdenum blue method	0.1 mg/L
	47. Boron(B)	
	- Atomic Absorption Spectrophotometry	0.000 1 mg
	48.2. Arsenic(As)	
	- Atomic Absorption Spectrophotometry	0.005 mg/L
	49.3. Sodium(Na)	
	- Atomic Absorption Spectrophotometry	0.2 mg/L
	50.2. Potassium(K)	
	- Atomic Absorption Spectrophotometry	0.2 mg/L
	51.2. Calcium(Ca)	
	- Atomic Absorption Spectrophotometry	0.2 mg/L
	52.2. Magnesium(Mg)	
	- Atomic Absorption Spectrophotometry	0.02 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	53.2. Copper(Cu) - Atomic Absorption Spectrophotometry	0.2 mg/L
	54.2. Zinc(Zn) - Atomic Absorption Spectrophotometry	0.05 mg/L
	55.2. Cadmium(Cd) - Atomic Absorption Spectrophotometry	0.05 mg/L
	56.2. Nickel(Ni) - Atomic Absorption Spectrophotometry	0.3 mg/L
	57. Tin(Sn)	0.003 mg
	58.2. Lead (Pb) - Atomic Absorption Spectrophotometry	1 mg/L
	59.1. Mercury(Hg) - Cold Vapor Atomic Absorption Spectrophotometry	0.000 5 mg/L
	60.2. Manganese(Mn) - Atomic Absorption Spectrophotometry	0.1 mg/L
	61.2. Aluminium(Al) - Atomic Absorption Spectrophotometry	5 mg/L
	62.2. Iron(Fe) - Atomic Absorption Spectrophotometry	0.3 mg/L
	63.1.2. Chromium(Cr) - Atomic Absorption Spectrophotometry	0.2 mg/L
	63.2.2. Chromium(VI)(Cr ⁶⁺) - Atomic Absorption Spectrophotometry	0.2 mg/L
	65.2. Vanadium(V)	1 mg/L
APHA Standard Methods : 22ND EDITION Standard Methods for the Examination of Water and Wastewater : 2012	Standard Methods for the Examination of Water and Wastewater 2120 Color 2130 Turbidity 2150 Odor 2160 Taste 2310 Acidity 2320 Alkalinity 2340 Hardness 2510 Conductivity	Equal to 1 CU 0.02 NTU - - - 1 mg/L 1 mg/L 1 μS/cm

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	2540 Solids	5 mg/L
	3500-Al Aluminum(Al)	1 µg/L
	3500-Sb Antimony(Sb)	1 µg/L
	3500-As Arsenic(As)	1 µg/L
	3500-Ba Barium	1 µg/L
	3500-Be Beryllium	1 µg/L
	3500-Bi Bismuth	1 µg/L
	3500-Cd Cadmium(Cd)	1 µg/L
	3500-Ca Calcium(Ca)	10 µg/L
	3500-Cr Chromium(Cr)	1 µg/L
	3500-Co Cobalt	1 µg/L
	3500-Cu Copper(Cu)	1 µg/L
	3500-Ga Gallium	1 µg/L
	3500-Ge Germanium	1 µg/L
	3500-In Indium	1 µg/L
	3500-Fe Iron(Fe)	1 µg/L
	3500-Pb Lead(Pb)	1 µg/L
	3500-Li Lithium	1 µg/L
	3500-Mg Magnesium(Mg)	10 µg/L
	3500-Mn Manganese(Mn)	1 µg/L
	3500-Hg Mercury(Hg)	1 µg/L
	3500-Mo Molybdenum	1 µg/L
	3500-Ni Nickel(Ni)	1 µg/L
	3500-K Potassium(K)	10 µg/L
	3500-Se Selenium(Se)	1 µg/L
	3500-Ag Silver	1 µg/L
	3500-Na Sodium(Na)	10 µg/L
	3500-Sr Strontium	1 µg/L
	3500-Tl Thallium	1 µg/L
	3500-Sn Tin(Sn)	1 µg/L
	3500-Ti Titanium	1 µg/L
	3500-U Uranium	1 µg/L
	3500-V Vanadium(V)	1 µg/L
	3500-Zn Zinc(Zn)	1 µg/L
	4110 Determination of anions by ion chromatography	0.1 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	4500-B Boron(B)	1 µg/L
	4500-Br ⁻ Bromide(Br ⁻)	
	B. Phenol Red Colorimetric Method	0.1 mg/L
	4500-CO ₂ Carbon dioxide(CO ₂)	1 mg/L
	4500-CN ⁻ Cyanide(CN ⁻)	1 µg/L
	C. Total Cyanide after Distillation	-
	E. Total Colorimetric Method	0.01 mg/L
	4500-Cl Chlorine(Residual)	0.05 mg/L
	G. DPD Colorimetric Method	0.01 mg/L
	4500-Cl ⁻ Chloride(Cl ⁻)	0.05 mg/L
	B. Argentometric Method	0.01 mg/L
	4500-F ⁻ Fluoride(F ⁻)	0.05 mg/L
	B. Preliminary Distillation Step	-
	D. SPADN Method	0.1 mg/L
	4500-H ⁺ pH value	1 ~ 14
	B. Electrometric Method	
	4500-I Iodine(I)	
	C. Amperometric Titration Method	1 mg/L
	4500-N Nitrogen	
	D. Conductimetric Determination of Inorganic Nitrogen	0.01 mg/L
	4500-NH ₃ Nitrogen(Ammonia)	
	B. Preliminary Distillation Step	-
	D. Ammonia-Selective Electrode Method	0.1 mg/L
	4500-NO ²⁻ Nitrogen(Nitrite)	0.01 mg/L
	4500-NO ³⁻ Nitrogen(Nitrate)	0.01 mg/L
	B. Ultraviolet Spectrophotometric Screening Method	0.01 mg/L
	C. Second-Derivative Ultraviolet Spectrophotometric Method	0.01 mg/L
	4500-N org Nitrogen(Organic)	0.1 mg/L
	B Macro-Kjeldahl method	1 mg/L
	4500-O Oxygen(Dissolved)	
	C. Azide Modification	0.1 mg/L
	D. Permanganate Modification	0.1 mg/L
	4500-SiO ₂ Silica(SiO ₂)	0.4 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	C. Molybdosilicate Method	1 mg/L
	D. Heteropoly Blue Method	0.05 mg/L
	4500-P Phosphorus(P)	0.2 mg/L
	B. Sample Preparation	-
	C. Vanadomolybdophosphoric Acid Colorimetric Method	0.2 mg/L
	E. Ascorbic Acid Method	0.15 mg/L
	4500-S ²⁻ Sulfide(S ²⁻)	
	D. Methylene Blue Method	1 mg/L
	F. Iodometric Method	1 mg/L
	4500-SO ₃ ²⁻ Sulfite(SO ₃ ²⁻)	
	B. Iodometric Method	2 mg/L
	4500-SO ₄ ²⁻ Sulfate(SO ₄ ²⁻)	0.1 mg/L
	C. Gravimetric Method with Ignition of Residue	1 mg/L
	D. Gravimetric Method with Drying of Residue	1 mg/L
	5210 BOD	1 mg/L
	5220 COD	1 mg/L
	5530 Phenols	0.005 mg/L
	5540 Surfactants	0.01 mg/L
	6040 Constituent concentration by gas extraction	
	(1,1,1-Trichloroethane, Tetrachloroethylene, Trichloroethylene)	0.5 µg/L
	6200 Volatile organic compounds (Dichloromethane, Benzene, Toluene, Ethylbenzene, Xylene,	0.5 µg/L
	1,1-Dichloroethylene)	0.5 µg/L
	6232 Trihalomethanes and chlorinated organic solvents	
	(Carbon tetrachloride, Trihalomethanes)	0.5 µg/L
	6431 Polychlorinated biphenyls(PCBs)	0.001 mg/L
	6610 Carbamate pesticides (carbaryl)	0.001 mg/L
	6630 Organochlorine pesticides	

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	(Malathion, Parathion, Fenitrothion, Diazinon)	0.001 mg/L
The notice No. 2015-214 of the ministry of Environment	Standard methods for the examination of environmental pollution(drinking water)	
	ES 05301.1b Hardness -EDTA Titrimetric method	1 mg/L
	ES 05302.1b Consumption of KMnO ₄ -Acid	0.3 mg/L
	ES 05302.2 Consumption of KMnO ₄ -Alkali	0.3 mg/L
	ES 05303.1b Odor	-
	ES 05304.1b Taste	-
	ES 05305.1b Color-Visual Comparison Method	1 degree
	ES 05306.1b pH-Electrometric method	1 ~ 14
	ES 05307.1b Total Solids	5 mg/L
	ES 05308.1b Turbidity	0.02 NTU
	ES 05309.1b Surfactants-UV/VIS spectrometry	0.1 mg/L
	ES 05310.1a Residual chlorine -DPD Colorimetry	0.05 mg/L
	ES 05310.2a Residual chlorine -OT Colorimetry	0.01 mg/L
	ES 05311.1a Phenols-UV/VIS spectrometry	0.005 mg/L
	ES 05311.2 Phenols -Continuous Flow Analysis(CFA))	0.005 mg/L
	ES 05351.1a Fluoride-Ion Chromatography	0.02 mg/L
	ES 05351.2a Fluoride-UV/VIS spectrometry	0.15 mg/L
	ES 05352.1b Cyanide-UV/VIS spectrometry	0.01 mg/L
	ES 05352.2 Cyanide -Continuous Flow Analysis(CFA))	0.01 mg/L
	ES 05353.1b Ammonium Nitrogen -UV/VIS spectrometry	0.01 mg/L
ES 05354.1a Nitrate Nitrogen-Ion Chromatography	0.02 mg/L	
ES 05355.1a Chloride-Ion Chromatography	0.4 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	ES 05356.1a Sulfate-Ion Chromatography	0.1 mg/L
	ES 05401.3b Copper-Inductively Coupled Plasma-Mass Spectrometry	0.000 45 mg/L
	ES 05402.3b Lead-Inductively Coupled Plasma-Mass Spectrometry	0.000 37 mg/L
	ES 05403.3b Manganese-Inductively Coupled Plasma-Mass Spectrometry	0.000 15 mg/L
	ES 05404.1b Boron-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.002 mg/L
	ES 05405.3b Arsenic-Inductively Coupled Plasma-Mass Spectrometry	0.002 87 mg/L
	ES 05406.3b Selenium-Inductively Coupled Plasma-Mass Spectrometry	0.000 49 mg/L
	ES 05407.1b Mercury-Cold vapor/Atomic Absorption Spectrometry	0.000 5 mg/L
	ES 05408.3b Zinc-Inductively Coupled Plasma-Mass Spectrometry	0.000 23 mg/L
	ES 05409.4a Aluminium-Inductively Coupled Plasma-Mass Spectrometry	0.001 82 mg/L
	ES 05410.4a Iron-Inductively Coupled Plasma-Mass Spectrometry	0.013 76 mg/L
	ES 05411.3a Cadmium-Inductively Coupled Plasma-Mass Spectrometry	0.000 36 mg/L
	ES 05412.3a Chromium-Inductively Coupled Plasma-Mass Spectrometry	0.001 35 mg/L
	ES 05501.2a Organophosphorus Pesticides -Gas Chromatography (Diazinon, Parathion, Fenitrothion)	0.000 5 mg/L
	ES 05502.1a Carbaryl -High Performance Liquid Chromatography	0.005 mg/L
	ES 05502.2a Carbaryl-Gas Chromatography	0.000 5 mg/L
	ES 05551.1b Chlorine Disinfection By-products -Gas Chromatograph-Mass Spectrometry	0.000 5 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.021 Water Quality

Test Method	Standard designation	Test range
	(Chloral hydrate, Dibromoacetonitrile, Dichloroacetonitrile, Trichloactonitrile, 1,2-dibromo-3-chropropane) ES 05551.2b Chlorine Disinfection By-products -Gas Chromatography	0.000 5 mg/L
	(Chloral hydrate, Dibromoacetonitrile, Dichloroacetonitrile, Trichloactonitrile, 1,2-dibromo-3-chropropane) ES 05552.1a Haloacetic acids -Gas Chromatograph-Mass Spectrometry (Dichloroacetic acid, Trichloroacetic acid, Dibromoacetic acid)	0.001 mg/L
	ES 05552.2a Haloacetic acids -Gas Chromatography (Dichloroacetic acid, Trichloroacetic acid, Dibromoacetic acid)	0.001 mg/L
	ES 05553.1 Formaldehyde- High Performance Liquid Chromatography	0.02 mg/L
	ES 05601.1b Volatile Organic Compounds -PurgeTrap-Gas Chromatograph-Mass Spectrometry (Dichloromethane, Benzene, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene, THMs(Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform), 1,1,1-Trichloroethane, Trichloroethylene, Tetrachloroethylene, 1,1-Dichloroethylene, CarbonTetrachloride)	0.001 mg/L
	ES 05602.4a 1,4-Dioxane-PurgeTrap -Gas Chromatograph-Mass Spectrometry	0.001 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
KS I 3217 : 2008	Testing methods for industrial wastewater	
	10. Color	(400 ~ 700) nm
	10.1 Y & Coordinate (x,y) Method	
	11. pH	1 ~ 14
	11.1 Glass electrode	
	12. Conductivity	1 μ S/cm
	13. Solid & evaporation residue	
	13.1 Solids	1 mg / L
	13.2 Suspended solids	1 mg/L
	13.6 Total solids	5 mg/L
	13.8 Volatile solids	5 mg/L
	13.9 Loss on ignition	5 mg/L
	14. Alkali consumption	
	14.1 Alkali consumption(pH 8.3)	1 mg/L
	14.2 Alkali consumption(pH 4.8)	1 mg/L
	15. Acid consumption	
	15.1 Acid consumption(pH 4.8)	1 mg/L
	15.2 Acid consumption(pH 8.3)	1 mg/L
	16. COD _{Mn} (100 $^{\circ}$ C)	1 mg/L
	18. COD _{Mn} (Alkaline)	0.2 mg/L
	19. COD _{Cr}	1 mg/L
	20. BOD	1 mg/L
	21. TOC	1 mg/L
	23. Hexane extract	1 mg/L
	26. PCB	0.001 mg/L
	27. Phenols	
	27.1 Phenols	0.05 mg/L
	27.2 p-cresols	0.05 mg/L
	28. HCHO	0.02 mg/L
	29. Surfactant	
	29.1 Anionic surfactant	0.002 mg/L
30. Pesticide	Parathion, Methyl parathion, EPN	
30.1 Organophosphorus pesticides	0.001 mg/L	
30.2 PCP	PCP 0.005 mg/L	
31. DO		
31.1 Winkler-azide method		

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
	31.2 Diaphragm electrode process	0.2 mg/L 0.1 mg/L
	32. Residual chlorine	
	32.1 OT method	0.1 mg/L
	32.2 DPD method	0.05 mg/L
	33. F	
	33.1 Absorption Photometry (pyridine-pyrazolone method)	0.15 mg/L 0.15 mg/L
	33.2 Ion electrode	
	34. Cl ⁻	0.2 mg/L
	35. I ⁻	
	35.1 Absorption Photometry (iodine extraction method)	0.1 mg/L
	36. Br ⁻	
	36.1 Iodometric titration	0.1 mg/L
	37. CN	
	37.2 Absorption Photometry (pyridine-pyrazolone method)	0.000 5 mg/L
	38. Sulfide ion	0.005 mg/L
	39. Sulfite ion	0.2 mg
	40. Sulfate ion	
	40.1 Absorption Photometry (barium chromate method)	0.05 mg/L
	40.2 Gravimetric analysis	10 mg/L
	41. Ammonium ion	
	41.2 Absorption Photometry (indophenol blue method)	0.005 mg/L
	42. Nitrite ion & Nitrate ion	
	42.1 Nitrite ion	
	42.1.1 Absorption Photometry (naphthylethylenediamin method)	0.000 6 mg/L
	42.2 Nitrate ion	
	42.2.1 Absorption Photometry (indophenol method)	0.017 mg/L
	43. Organic nitrogen	
	43.1 Volumetric analysis	0.23 mg/L
	44. T-N	0.005 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
	44.2 Ultraviolet spectrophotometry	
	45. Phosphate ion & T-P	
	45.1 Phosphate ion	
	45.1.2 Absorption Photometry B method	0.002 5 mg/L
	45.2 T-P	
	45.2.1 Absorption Photometry A method	0.001 2 mg/L
	46. B	
	46.1 Atomic Absorption Spectrophotometry	0.000 1 mg/L
	47. Na	
	47.1 Atomic Absorption Spectrophotometry	0.2 mg/L
	48. K	
	48.1 Atomic Absorption Spectrophotometry	0.2 mg/L
	49. Ca	
	49.1 Chelatometry	0.2 mg/L
	49.2 Atomic Absorption Spectrophotometry	0.2 mg/L
	50. Mg	
	50.1 Chelatometry	0.15 mg/L
	50.2 Atomic Absorption Spectrophotometry	0.02 mg/L
	51. Cu	
	51.1 Atomic Absorption Spectrophotometry	0.2 mg/L
	52. Zn	
	52.1 Atomic Absorption Spectrophotometry	0.05 mg/L
	53. Pb	
	53.1 Atomic Absorption Spectrophotometry	1 mg/L
	54. Cd	
	54.1 Atomic Absorption Spectrophotometry	0.05 mg/L
	55. Mn	
	55.1 Atomic Absorption Spectrophotometry	0.1 mg/L
	56. Fe	
	56.1 Atomic Absorption Spectrophotometry	0.3 mg/L
	57. Al	
	57.1 Atomic Absorption Spectrophotometry	5 mg/L
	58. Ni	
	58.1 Atomic Absorption Spectrophotometry	0.3 mg/L
	59. Co	
	59.1 Atomic Absorption Spectrophotometry	0.5 mg/L
	60. As	0.005 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
	60.1 Atomic Absorption Spectrophotometry	
	61. Sb	
	61.1 Absorption Photometry	0.001 mg/L
	62. Sn	
	62.1 Absorption Photometry	0.003 mg/L
	63. Bi	
	63.1 Absorption Photometry	0.003 mg/L
	64.1 Cr	
	64.1.1 Absorption Photometry	0.002 mg/L
	64.1.2 Atomic Absorption Spectrophotometry	0.5 mg/L
	64.2 Cr(VI)	
	64.2.1 Absorption Photometry	0.002 mg/L
	64.2.2 Atomic Absorption Spectrophotometry	0.2 mg/L
	65. Hg	
	65.1 Atomic Absorption Spectrophotometry	0.000 5 mg/L
	65.1.2.2 Cold vapor Method	
	66. Se	
	66.1 Absorption Photometry	0.002 mg/L
	67. Mo	
	66.1 Absorption Photometry	0.001 mg/L
	68. W	
	68.1 Absorption Photometry	0.005 mg/L
	69. V	
	69.1 Absorption Photometry	0.002 mg/L
KS F 3230 : 2013	WPC(Wood Plastic Composite) deck floor board	
	7.13 Test for Elution in Hazardous substance	
	Pb	0.01 mg/L
	Cd	0.01 mg/L
	Cr	0.01 mg/L
	As	0.01 mg/L
The notice No. 2016-196 of the ministry of Environment	Standard methods for the examination of environmental pollution(wastes)	
	ES 06301.1b Humidity and Total Organics-Gravimetry	0.1 %
	ES 06302.1a Oil and Grease-Gravimetry	0.1 %

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
	ES 06303.1 Humidity and Total Solid -Gravimetry	0.1 %
	ES 06304.1 pH-Electrometric Method	1 ~ 14
	ES 06351.1 Cyanide-UV/Visible Spectrometry	0.01 mg/L
	ES 06351.2 Cyanide-Electrometry	0.5 mg/L
	ES 06401.1 Copper -Atomic Absorption Spectrophotometry	0.008 mg/L
	ES 06401.2 Copper-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.006 mg/L
	ES 06401.3 Copper-UV/Visible Spectrometry	0.002 mg
	ES 06402.1 Lead -Atomic Absorption Spectrophotometry	0.04 mg/L
	ES 06402.2 Lead-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.040 mg/L
	ES 06402.3 Lead-UV/Visible Spectrometry	0.001 mg
	ES 06403.1 Arsenic -Atomic Absorption Spectrophotometry	0.005 mg/L
	ES 06403.2 Arsenic-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.050 mg/L
	ES 06403.3 Arsenic-UV/Visible Spectrometry	0.002 mg
	ES 06404.1 Mercury -Atomic Absorption Spectrophotometry	0.000 5 mg/L
	ES 06404.2 Mercury-UV/Visible Spectrometry	0.001 mg
	ES 06405.1 Cadmium -Atomic Absorption Spectrophotometry	0.002 mg/L
	ES 06405.2 Cadmium-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.004 mg/L
	ES 06405.3 Cadmium-UV/Visible Spectrometry	0.001 mg
	ES 06406.1 Chromium -Atomic Absorption Spectrophotometry	0.01 mg/L
	ES 06406.2 Chromium-Inductively Coupled Plasma Atomic Emission Spectrometry	0.007 mg/L
	ES 06406.3 Chromium -UV/Visible Spectrometry	0.002 mg
	ES 06407.1 Hexavalent Chromium	0.01 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
	-Atomic Absorption Spectrophotometry ES 06407.2 Hexavalent chromium	0.007 mg/L
	-Inductively Coupled Plasma Atomic Emission Spectrometry ES 06407.3a Hexavalent Chromium	0.002 mg
	-UV/Visible Spectrometry ES 06501.1 Organophosphorus Pesticides	0.000 5 mg/L
	-Gas Chromatography ES 06501.2 Organophosphorus Pesticides	0.000 5 mg/L
	-Gas Chromatography-Mass Spectrometry ES 06502.1 Polychlorinated Biphenyls	Extract solution 0.000 5 mg/L Liquid waste 0.05 mg/L
	-Gas Chromatography ES 06502.2a Polychlorinated Biphenyls	1.0 mg/L
	-Gas Chromatograph-Mass Spectrometry ES 06502.3a Polychlorinated Biphenyls	0.5 mg/L
	-Gas Chromatography ES 06601.1 Halogenated Compounds	10 mg/kg
	-Gas Chromatography-Mass Spectrometry ES 06601.2 Halogenated Compounds	10 mg/kg
	-Gas Chromatography ES 06602.1 Vulgar Chlorine Hydrocarbons	TCE 0.008 mg/L PCE 0.002 mg/L
	-Gas Chromatography	
The notice No. 2017-4 of the ministry of Environment	Standard methods for the examination of environmental pollution(water pollution)	
	ES 04302.1 n-Hexane Extractable Material	0.5 mg/L
	ES 04303.1 Suspended solids	2 mg
	ES 04304.1 Color	10 degree
	ES 04305.1 BOD	1 mg/L
	ES 04306.1 pH	1 ~ 14
	ES 04308.1 DO-Titrimetric Method	0.1 mg/L
	ES 04308.2 DO-electrode method	0.5 mg/L
	ES 04310.1 Conductivity	1 μS/cm
ES 04311.1 TOC-high temperature	0.3 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
The notice No. 2017-4 of the ministry of Environment	combustion oxidation method	
	ES 04312.1 Chlorophyll A	0.01 mg/m ³
	ES 04316.1 DOC-high temperature combustion oxidation method	0.3 mg/L
	ES 04313.1 Turbidity	0.02 NTU
	ES 04315.1 COD _{Mn} -Titrimetric Method- Acidic Permanganate	1 mg/L
	ES 04315.2 COD _{Mn} -Titrimetric Method- Alkaline Permanganate	1 mg/L
	ES 04315.3 COD _{Cr} -Titrimetric Method- Dicromate	1 mg/L
	ES 04351.3 F-IC method	0.05 mg/L
	ES 04353.1 CN-UV/VIS Spectroscopy	0.01 mg/L
	ES 04353.3 CN-CFA	0.01 mg/L
	ES 04354.1 Nitrite-Nitrogen -UV/VIS Spectroscopy	0.004 mg/L
	ES 04354.2 Nitrite-Nitrogen -IC method	0.1 mg/L
	ES 04355.1 Ammonium Nitrogen -UV/VIS Spectroscopy	0.01 mg/L
	ES 04355.3 Ammonium Nitrogen -Titrimetric Method	1 mg/L
	ES 04356.1 Chloride-Ion Chromatography	0.1 mg/L
	ES 04357.1 Dissolved Total Phosphorus	0.003 mg/L
	ES 04358.1 Dissolved Total Nitrogen	0.06 mg/L
	ES 04359.0 Anionic Surfactants -UV/VIS UV/Visible Spectrometry	0.02 mg/L
	ES 04359.2 Anionic Surfactants -Continuous Flow Analysis	0.09 mg/L
	ES 04360.1 Phosphate Phosphorus-UV/Visible Spectrometry-Tin(II) Chloride Method	0.003 mg/L
ES 04360.2 Phosphorus-P-UV/Visible Spectrometry-Ascorbic Acid Method	0.003 mg/L	
ES 04360.3 Phosphate Phosphorus -Ion Chromatography	0.1 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
The notice No. 2017-4 of the ministry of Environment	ES 04361.1 Nitrogen Nitrate -Ion Chromatography	0.1 mg/L
	ES 04361.2 Nitrate Nitrogen -UV/Visible Spectrometry-Brucine Method	0.1 mg/L
	ES 04362.1 Total Phosphorus -UV/Visible Spectrometry	0.003 mg/L
	ES 04362.2 Total Phosphorus -Continuous Flow Analysis(CFA)	0.003 mg/L
	ES 04363.1 Total Nitrogen -UV/Visible Spectrometry-Oxidation Method)	0.1 mg/L
	ES 04363.2 Total Nitrogen -UV/Visible Spectrometry -Cadmium-Copper Reduction Method	0.004 mg/L
	ES 04363.3 Total Nitrogen -UV/Visible Spectrometry -Deoxidize Distillation-Kledahl Method	0.02 mg/L
	ES 04363.4 Total Nitrogen -Continuous Flow Analysis	0.06 mg/L
	ES 04365.1 Phenols-UV/Visible Spectrometry	0.05 mg/L
	ES 04365.2 Phenols -Continuous Flow Analysis(CFA)	0.007 mg/L
	ES 04401.1 Cu -Atomic Absorption Spectrometry	0.008 mg/L
	ES 04401.2 Cu-UV/Visible Spectrometry	0.01 mg/L
	ES 04401.3 Cu-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.006 mg/L
	ES 04401.4 Cu-Inductively Coupled Plasma-Mass Spectrometry	0.002 mg/L
	ES 04402.1 Pb -Atomic Absorption Spectrometry	0.04 mg/L
	ES 04402.2 Pb-UV/Visible Spectrometry	0.004 mg/L
	ES 04402.3 Pb-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.04 mg/L
ES 04402.4 Pb-Inductively Coupled Plasma-Mass Spectrometry	0.002 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
The notice No. 2017-4 of the ministry of Environment	ES 04403.1 Ni -Atomic Absorption Spectrometry	0.01 mg/L
	ES 04403.2 Ni-UV/Visible Spectrometry	0.008 mg/L
	ES 04403.3 Ni-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.015 mg/L
	ES 04403.4 Ni-Inductively Coupled Plasma-Mass Spectrometry	0.002 mg/L
	ES 04404.1 Mn -Atomic Absorption Spectrometry	0.005 mg/L
	ES 04404.2 Mn-UV/Visible Spectrometry	0.2 mg/L
	ES 04404.3 Mn-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.002 mg/L
	ES 04404.4 Mn-Inductively Coupled Plasma-Mass Spectrometry	0.000 5 mg/L
	ES 04406.1 As-Hydride Generation -Atomic Absorption Spectrometry	0.005 mg/L
	ES 04406.2 As-UV/Visible Spectrometry	0.004 mg/L
	ES 04406.3 As-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.05 mg/L
	ES 04406.4 As-Inductively Coupled Plasma-Mass Spectrometry	0.006 mg/L
	ES 04407.1 Se-Hydride Generation -Atomic Absorption Spectrometry	0.005 mg/L
	ES 04407.2 Se-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.03 mg/L
	ES 04408.1 Hg-Cold Vapor -Atomic Absorption Spectrometry	0.000 5 mg/L
	ES 04408.2 Hg-UV/Visible Spectrometry	0.003 mg/L
	ES 04409.1 Zn -Atomic Absorption Spectrometry	0.002 mg/L
	ES 04409.2 Zn-UV/Visible Spectrometry	0.01 mg/L
	ES 04409.3 Zn-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.002 mg/L
	ES 04409.4 Zn-Inductively Coupled Plasma-Mass Spectrometry	0.006 mg/L
ES 04410.1 Sb-Inductively Coupled	0.02 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
The notice No. 2017-4 of the ministry of Environment	Plasma-Atomic Emission Spectrometry	
	ES 04410.2 Sb-Inductively Coupled Plasma-Mass Spectrometry	0.000 4 mg/L
	ES 04412.1 Fe -Atomic Absorption Spectrometry	0.03 mg/L
	ES 04412.2 Fe-UV/Visible Spectrometry	0.08 mg/L
	ES 04412.3 Fe-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.007 mg/L
	ES 04413.1 Cd -Atomic Absorption Spectrometry	0.002 mg/L
	ES 04413.2 Cd-UV/Visible Spectrometry	0.004 mg/L
	ES 04413.3 Cd-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.004 mg/L
	ES 04413.4 Cd-Inductively Coupled Plasma-Mass Spectrometry	0.002 mg/L
	ES 04414.1 Cr -Atomic Absorption Spectrometry	0.01 mg/L
	ES 04414.2 Cr-UV/Visible Spectrometry	0.04 mg/L
	ES 04414.3 Cr-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.007 mg/L
	ES 04414.4 Cr-Inductively Coupled Plasma-Mass Spectrometry	0.000 2 mg/L
	ES 04415.1 Cr ⁶⁺ -Atomic Absorption Spectrometry	0.01 mg/L
	ES 04415.3 Cr ⁶⁺ -UV/Visible Spectrometry	0.04 mg/L
	ES 04415.2 Cr ⁶⁺ -Inductively Coupled Plasma-Atomic Emission Spectrometry	0.007 mg/L
	ES 04416.1 Alkyl Hg-Gas Chromatography	0.000 5 mg/L
	ES 04416.2 Alkyl Hg -Atomic Absorption Spectrometry	0.000 5 mg/L
	ES 04501.1 Di-(2-Ethylhexyl)Phthalate -Liquid Extraction/Gas Chromatograph -Mass Spectrometry	0.002 5 mg/L
	ES 04502.1 Total Petroleum Hydrocarbon -Liquid Extraction/Gas Chromatography	0.2 mg/L
ES 04503.1 Organophosphorus Pesticides	0.000 5 mg/L	

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
The notice No. 2017-4 of the ministry of Environment	-Liquid Extraction/Gas Chromatography (Diazinon, Parathion, EPN, Methyl demeton, Phenthoate)	0.000 5 mg/L
	ES 04504.1 Polychlorinated Biphenyls -Gas Chromatography	
	ES 04603.1 Volatile Organic Compounds -Purge/Trap-Gas Chromatograph -Mass Spectrometry (1,1-Dichloroethylene, Dichloromethane, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Benzene, Toluene, Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Ethylbenzene, Xylene)	0.001 mg/L
	ES 04603.2 Volatile Organic Compounds -Headspace-Gas Chromatograph -Mass Spectrometry (1,1-Dichloroethylene, Dichloromethane, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Benzene, Toluene, Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Ethylbenzene, Xylene)	0.005 mg/L
	ES 04603.3 Volatile Organic Compounds -Purge □Trap-Gas Chromatography (1,1-Dichloroethylene, Dichloromethane, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Benzene, Toluene, Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Ethylbenzene, Xylene)	0.001 mg/L
	ES 04603.4 Volatile Organic Compounds -Headspace-Gas Chromatography (1,1-Dichloroethylene, Dichloromethane, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Benzene, Toluene, Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Ethylbenzene, Xylene)	0.001 mg/L
	ES 04604.5 Volatile Organic Compounds -Liquid Extraction/-Gas Chromatograph -Mass Spectrometry	0.002 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
	(1,1-Dichloroethylene, Dichloromethane, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Benzene, Toluene, Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Ethylbenzene, Xylene)	
	ES 04604.6 Volatile Organic Compounds -Liquid Extraction/Gas Chromatography (1,1-Dichloroethylene, Dichloromethane, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Benzene, Toluene, Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Ethylbenzene, Xylene)	0.008 mg/L
	ES 04907.1 TP-Continuous Monitoring Method	0.003 mg/L
	ES 04908.1 TN -Continuous Monitoring Method	0.06 mg/L
	ES 04301.1 Odor	
	ES 04309.1 Residual Chlorine -Colorimetric Method	0.05 mg/L
	ES 04352.1 Bromide-Ion Chromatography	0.03 mg/L
	ES 04364.2 Perchlorate-Ion Chromatography	0.002 mg/L
	ES 04366.1 Sulfate-Ion Chromatography	0.5 mg/L
	ES 04405.1 Barium -Atomic Absorption Spectrometry	0.1 mg/L
	ES 04405.2 Barium-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.003 mg/L
	ES 04405.3 Barium-Inductively Coupled Plasma-Mass Spectrometry	0.003 mg/L
	ES 04411.1 Tin -Atomic Absorption Spectrometry	0.8 mg/L
	ES 04411.2 Tin-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.02 mg/L
	ES 04411.3 Tin-Inductively Coupled Plasma-Mass Spectrometry	0.000 1 mg/L
	ES 04601.4b 1,4-Dioxane-Liquid Extraction/ Gas Chromatograph/Mass Spectrometry	0.01 mg/L
	ES 04602.1 Bromoform, Vinyl Chloride, Acrylonitrile-Headspace-Gas Chromatograph -Mass Spectrometry	0.005 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.022 Wastewater and Waste matter

Test Method	Standard designation	Test range
EPA 8260B : 1996	Volatile Organic Compounds(VOCs) by Gas Chromatography Mass Spectrometry (GC/MS)	0.001 mg/L
ISO 11423-1 : 1997	Water quality -- Determination of benzene and some derivatives -- Part 1 : Head-space gas chromatographic method	0.01 mg/L
ISO 16221 : 2001	Water quality -- Guidance for determination of biodegradability in the marine environment	0.1 %
ISO 11732 : 2005	Water quality -- Determination of ammonium nitrogen -- Method by flow analysis (CFA and FIA) and spectrometric detection	0.01 mg/L
ISO 13395 : 1996	Water quality -- Determination of nitrite nitrogen and nitrate nitrogen and the sum of both by flow analysis (CFA and FIA) and spectrometric detection	0.01 mg/L
ISO 14402 : 1999	Water quality -- Determination of phenol index by flow analysis (FIA and CFA)	0.01 mg/L
ISO 14403-2 : 2012	Water quality -- Determination of total cyanide and free cyanide by continuous flow analysis	0.01 mg/L
ISO 15681-1 : 2003	Water quality -- Determination of orthophosphate and total phosphorus contents by flow analysis (FIA and CFA) -- Part 1 : Method by flow injection analysis (FIA)	0.01 mg/L
ISO 15681-2 : 2003	Water quality -- Determination of orthophosphate and total phosphorus contents by flow analysis (FIA and CFA) -- Part 2 : Method by continuous flow analysis (CFA)	0.01 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.023 Air Quality

Test Method	Standard designation	Test range
The Ministry of Environment Notice No. 2015-247	Standard methods for the examination of environmental pollution(air pollution)	
	ES 01201.1 Gas Chromatography method	-
	ES 01301.1 Dust of emission gases	1 mg/m ³
	ES 01302.1 Dust scattering	0.001 mg/m ³
	ES 01303.1 NH ₃ of emission gases	0.1 μmol/mol
	ES 01304.1 CO of emission gases	1 μmol/mol
	ES 01305.1 HCl of emission gases	0.1 μmol/mol
	ES 01306.1 Cl ₂ of emission gases	0.1 μmol/mol
	ES 01307.1 SO _x compound of emission gases	1 μmol/mol
	ES 01308.1 NO _x compound of emission gases	1 μmol/mol
	ES 01309.1 CS ₂ of emission gases	0.1 μmol/mol
	ES 01310.1 H ₂ S of emission gases	0.1 μmol/mol
	ES 01311.1 F compound of emission gases	0.1 μmol/mol
	ES 01312.1 HCN of emission gases	0.1 μmol/mol
	ES 01313.1 Smoke of emission gases	1
	ES 01314.1 O ₂ of emission gases	1 %
	ES 01351.1 SO ₂ of abient air	0.1 μmol/mol
	ES 01352.1 CO of abient air	0.1 μmol/mol
	ES 01353.1 NO _x of abient air	0.1 μmol/mol
	ES 01354.1 Dust of abient air	0.01 mg/m ³
	ES 01355.1 Oxidant of abient air	0.1 μmol/mol
	ES 01356.1 THC of abient air	0.1 μmol/mol
	ES 01357.1 Asbestos of abient air	0.005 f/mL
	ES 01400.1 Metal compound of emission gases-AAS	0.01 mg/m ³
	ES 01400.2 Metal compound of emission gases-ICP-AES	0.01 mg/m ³
	ES 01401.1 As compound of emission gases-Hydride-AAS	0.01 μmol/mol
	ES 01408.1 Hg compound of emission gases	0.01 mg/m ³
ES 01450.1 Metal compound of abient	0.001 mg/m ³	

Korea Laboratory Accreditation Scheme

No. KT011

02.023 Air Quality

Test Method	Standard designation	Test range
	air-AAS ES 01450.2 Metal compound of ambient air	0.001 mg/m ³
	air-ICP-AES ES 01501.1 HCHO and aldehydes of emission gases	0.1 μmol/mol
	ES 01502.1 Br compound of emission gases	0.1 μmol/mol
	ES 01503.1 Phenol compound of emission gases	0.1 μmol/mol
	ES 01601.1 Benzene of emission gases	0.1 μmol/mol
	ES 01606.1 VOCs of emission gases - Gas Chromatography	0.001 mg/m ³
	ES 01553.1 Aldehydes of ambient air - HPLC	0.001 mg/m ³
	ES 01651.1 VOCs of ambient air	0.001 mg/m ³
The Ministry of Environment Notice No. 2014 - 130	Standard Methods of Odor compounds	Boundary line : 3 dilution ratio Emission : 300 dilution ratio
	ES 09301 Air dilution olfactory method	
	ES 09302.1 Ammonia - boric acid solution absorption - absorptiometric analysis method	0.01 μmol/mol
	ES 09303.3 sulfur compounds - electronic device cooling cold trap - Capillary GC method	0.001 μmol/mol
	ES 09304.1 trimethylamine - Headspace - Capillary GC method	0.001 μmol/mol
	ES 09305.1 aldehyde - DNPH - HPLC method	0.001 μmol/mol

Korea Laboratory Accreditation Scheme

No. KT011

02.023 Air Quality

Test Method	Standard designation	Test range
	ES 09306.1 styrene – cold trap – GC method	0.01 $\mu\text{mol/mol}$
	ES 09307 Toluene, xylene, methylethylketone, methylisobutylketone, butylacetate, styrene, i-butylalcohol – cold trap/thermal desorption – GC method	0.01 $\mu\text{mol/mol}$

Korea Laboratory Accreditation Scheme

No. KT011

02.024 Soil Quality

Test Method	Standard designation	Test range
The notice No. 2015-261 of the ministry of Environment	Standard methods for the examination of environmental pollution(soil)	
	ES 07301.1a Moisture content	0.1 %
	ES 07302.1a pH-glass electrode method	1 ~ 14
	ES 07351.1a Fluoride-UV/Visible spectrometry	10 mg/kg
	ES 07352.1a Cyanide-UV/Visible spectrometry	0.2 mg/kg
	ES 07401.1a Copper-atomic absorption spectrophotometry	0.5 mg/kg
	ES 07401.2a Copper-inductively coupled plasma-atomic emission spectrometry	1.0 mg/kg
	ES 07402.1a Lead - atomic absorption spectrophotometry	4.0 mg/kg
	ES 07402.2a Lead-inductively coupled plasma-atomic emission spectrometry	1.5 mg/kg
	ES 07403.1a Nickel - atomic absorption spectrophotometry	4.0 mg/kg
	ES 07403.2a Nickel-inductively coupled plasma-atomic emission spectrometry	0.4 mg/kg
	ES 07404.1a Arsenic-hydride generation-atomic absorption spectrophotometry	0.1 mg/kg
	ES 07404.2a Arsenic-inductively coupled plasma-atomic emission spectrometry	1.5 mg/kg
	ES 07405.1a Mercury-cold vapor atomic absorption spectrophotometry	0.05 mg/kg
	ES 07406.1a Zinc - atomic absorption spectrophotometry	2.0 mg/kg
	ES 07406.2a Zinc-inductively coupled plasma-atomic emission spectrometry	1.0 mg/kg
	ES 07407.1a Cadmium - atomic absorption spectrophotometry	0.4 mg/kg
	ES 07407.2a Cadmium-inductively coupled plasma-atomic emission spectrometry	0.1 mg/kg
ES 07408.1a Hexavalent chromium-UV/Visible spectrometry	0.5 mg/kg	
ES 07501.1a Organophosphorus		

Korea Laboratory Accreditation Scheme

No. KT011

02.024 Soil Quality

Test Method	Standard designation	Test range
	pesticides-gas chromatography	EPN 0.05 mg/kg, parathion 0.05 mg/kg, methyl demeton 0.05 mg/kg, diazinon 0.05 mg/kg, phentoate 0.05 mg/kg
	EPN, parathion, methyl demeton, diazinon, phentoate	
	ES 07552.1a TPH-Gas Chromatography ES 07553.1a Phenols-gas chromatography	50 mg/kg
	phenol, pentachlorophenol	phenol 0.02 mg/kg 0.1 mg/kg
	ES 07554.1a PCBs-gas chromatography ES 07601.1a Benzene, toluene, ethylbenzene, xylene-purge-trap gas chromatography-mass spectrometry	0.05 mg/kg 0.1 mg/kg
	ES 07602.1a TCE, PCE - purge-trap gas chromatography-mass spectrometry	0.1 mg/kg
	ES 07501.2a Organophosphorus pesticides-gas chromatography-mass spectrometry	EPN 0.05 mg/kg, parathion 0.05 mg/kg, methyl demeton 0.05 mg/kg, diazinon 0.05 mg/kg, phentoate 0.05 mg/kg
	EPN, parathion, methyl demeton, diazinon, phentoate	
	ES 07551.1a Benzo(a)pyrene-gas chromatography-mass spectrometry	0.005 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.025 Indoor and Other Environment

Test Method	Standard designation	Test range
The Ministry of Environment Notice No. 2017-11	Standard methods for the examination of environmental pollution (indoor air) ES 02304.1a Determination of airborne asbestos fibers by transmission electron microscope	(50 ~ 7 000) structures/mm ²
IEC 62321 Ed. 1.0 : 2008	Electrotechnical products-Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)	Pb 5 mg/kg Cd 1 mg/kg Hg 1 mg/kg Cr(VI) 5 mg/kg PBBs 10 mg/kg PBDEs 10 mg/kg
IEC 62321-6 Ed.1.0 : 2015	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography –mass spectrometry (GC-MS)	PBBs 10 mg/kg PBDEs 10 mg/kg
IEC 62321-7-1 Ed.1.0 : 2015	Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method	Cr(VI) : 5 mg/kg
IEC 62321-4 Ed. 1.0 : 2013	Determination of certain substances in electrotechnical products - Part 4 : Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS	1 mg/kg
IEC 62321-5 Ed. 1.0 : 2013	Determination of certain substances in electrotechnical products - Part 5 : Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS	Cd 1 mg/kg Pb 5 mg/kg Cr 1 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.025 Indoor and Other Environment

Test Method	Standard designation	Test range
The Ministry of Environment Notice No. 2017-11	Standard methods for the examination of environmental pollution (indoor air)	
	ES 02131.1a Determination of the emission of formaldehyde for building materials and building related products - small chamber method	0.005 mg/m ² ·h
	ES 02302.1a Dust (PM10) of indoor air	0.001 mg/m ³
	ES 02303.1a Asbestos of indoor air-PCM	0.005 f/mL
	ES 02601.1a Determination of the emission of formaldehyde for building materials and indoor air – 2,4 DNPH cartridge and LC	0.001 µmol/mol
	ES 02602.1a Determination of the emission of volatile organic compounds for building materials and indoor air – Solid absorbent and GC-MS/FID	0.001 µmol/mol
	ES 02701.1a Total bacteria count of indoor air	1 CFU/m ³
	ES 02901.1a Radon of indoor air	1 Bq/m ³
	ES 02903.1a O ₃ of indoor air	0.001 µmol/mol
	ES 02904.1a NO ₂ of indoor air	0.001 µmol/mol
	ES 02905.1a CO ₂ of indoor air	1 µmol/mol
	ES 02906.1a CO of indoor air-NDIR	0.001 µmol/mol
	ES 02906.2a CO of indoor air-electrochemical sensor method	0.1 µmol/mol
	KS I ISO 16000-1 : 2014	Indoor air—Part 1 : General aspects of sampling strategy

Korea Laboratory Accreditation Scheme

No. KT011

02.025 Indoor and Other Environment

Test Method	Standard designation	Test range
KS I ISO 16000-3 : 2014	Indoor air—Part 3 : Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air—Active sampling method	10 µg/m ³
KS I ISO 16000-6 : 2004	Indoor air—Part 6 : Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS or MS/FID	0.005 mg/m ² ·h
KS I ISO 16000-9 : 2004	Indoor air—Part 9 : Determination of the emission of volatile organic compounds from building products and furnishing—Emission test chamber method	0.005 mg/m ² ·h
KS I ISO 16000-11 : 2004	Indoor air—Part 11 : Determination of the emission of volatile organic compounds—Sampling, storage of samples and preparation of test specimens	-
KS M 7305 : 2015	Wall paper and wall coverings for decorative finish	-
	5.3.6 Determination of the formaldehyde emission	0.1 mg/L
KS F 3101 : 2016	Ordinary polywood	-
	7.4 Determination of the formaldehyde emission	0.1 mg/L
KS F 3104 : 2016	Particle boards	-
	6.10 Determination of the formaldehyde emission	0.1 mg/L
KS F 3111 : 2016	Natural wood veneer flooring board	-
	8.17 Determination of the formaldehyde emission	0.1 mg/L
KS F 3126 : 2016	Decoration wood-based flooring board	-
	8.20 Determination of the formaldehyde emission	0.1 mg/L

Korea Laboratory Accreditation Scheme

No. KT011

02.025 Indoor and Other Environment

Test Method	Standard designation	Test range
KS F 3200 : 2016	Fiberboards 6.14 Determination of the formaldehyde emission	- 0.1 mg/L
KS F 3217 : 2010	Adhesives for wall paper and wall coverings for decorative finish 6.4 Determination of the formaldehyde emission	- 0.1 mg/L
KS G 4203 : 2016	Office furniture – Desks and tables 10.8 Determination of the formaldehyde emission	- 0.1 mg/L
KS I 2007 : 2009	Determination of the emission of volatile organic compounds and aldehydes for furniture and furniture related products - Large chamber method	0.005 mg/m ² ·h
KS X ISO/IEC 28360 : 2014	Determination of the emission of chemical compound- business machine	0.005 mg/m ² ·h
KS M 1998 : 2009	Determination of the emission of volatile organic compounds and aldehydes for building materials and building related products	0.1 mg/L
KS M 6962 : 2012	Standard specification for elastomeric foam thermal insulation material 7.8 Determination of the formaldehyde emission	0.1 mg/L
KS F 3230 : 2013	WPC(Wood Plastic Composite) deck floor board 7.14 Determination of the formaldehyde emission	0.1 mg/L
KS F 2611 : 2009	Determination of moisture adsorption/desorption properties in response to humidity variation	0.16 g/m ²

Korea Laboratory Accreditation Scheme

No. KT011

02.025 Indoor and Other Environment

Test Method	Standard designation	Test range
KS F 2612 : 2011	Performance test for evaluating the reduction of formaldehyde concentrations by sorptive building materials	0.002 mg/m ² ·h
JIS A 1911 : 2015	Determination of the emission of formaldehyde for building materials and building related products - Large chamber method	0.005 mg/m ² ·h
JIS A 1912 : 2015	Determination of the emission of volatile organic compounds and aldehydes without formaldehyde for building materials and building related products - Large chamber method	0.005 mg/m ² ·h
ASTM D 6670-13	Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products	0.005 mg/m ² ·h
ISO 16000-23 : 2009	Indoor air - Part 23 : Performance test for evaluating the reduction of formaldehyde concentrations by sorptive building materials	0.002 mg/m ² ·h
ISO 16000-24 : 2009	Indoor air - Part 24 : Performance test for evaluating the reduction of volatile organic compound (except formaldehyde) concentrations by sorptive building materials	0.002 mg/m ² ·h
ISO 24353 : 2008	Hygrothermal performance of building materials and products - Determination of moisture adsorption/desorption properties in response to humidity variation	0.16 g/m ²

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
KS M 2701 : 2007	Testing methods for soap	
	6.1.2 Moisture (Matter Volatile at 105 °C(Oven Method))	0.1 %
	6.2 Soluble Material in Petroleum Ether	0.1 %
	6.4 Pure Soap Content	5 % ~ 100 %
	6.5 Free Alkali	0.01 %
KS M 2709 : 2006	6.7 Ethyl alcohol insoluble matter	0.1 %
	Testing methods for synthetic detergent	
	6.7 Surface active agent	1 % ~ 100 %
	6.10 Total phosphate	0.1 %
	6.16 Fluorescent whiten agent	Qualitative analysis (visual inspection)
	6.17 As	Qualitative analysis (visual inspection)
	6.18 Heavy metal	Qualitative analysis (visual inspection)
6.19 Methanol	0.05 mg/g	
KS M 2714 : 2007	7.3 pH	2 ~ 12
	7.4.2 Surface tension(Determination of surface tension by drawing up liquid films)	10 mN/m ~ 80 mN/m
KS M 2714 : 2007	Testing method for biodegradability of synthetic detergent	1 %
Self Regulatory Safety Confirmation Standards Annex 67 (Korean Agency for Technology and Standards Notification No. 2017-020)	Indoor Floorcoverings Part1. Polyvinyl Chloride Floorcoverings 4.2 Phthalate Plasticizers Part2. Plastic Bath Mat 4.2.1 Harmful substance 4.2.2 Phthalate Plasticizers	above each 0.005 % above each 5 mg/kg above each 0.005 %

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
Safety check safety standards Annex 15 (Usually the Ministry of Industry Notice No. 2015-0108)	Thermal Pack for children 6.4 Migration of harmful elements 6.5 Content of harmful elements 6.6 Total content of phthalate plasticizers	each 5 mg/kg (Pb) 5 mg/kg (Cd) 1 mg/kg each 0.005 %
Supplier's Declaration of Conformity Annex 42 (Korean Agency for Technology and Standards Notification No. 2017-0033)	False eyelashes 5.2 Size 5.3 Harmful substance 5.3.1 Azo dyes 5.3.2 Organic tin compounds 5.3.3 Formaldehyde 5.3.4 Heavy metal(Pb, As)	0.1 mm 5 mg/kg each 1 mg/kg 20 mg/kg 1 mg/kg
Regulatory Safety Confirmation Standards Annex 5 (Korean Agency for Technology and Standards Notification No. 2017-0032)	Rechargeable excluding 5.1 Appearance 6.2.1 Open-circuit voltage 6.2.2 Mercury (Hg) content 6.2.3 Cadmium (Cd) content 6.2.4 Lead (Pb) content 6.2.5 Anti-leak property	Qualitative analysis (visual inspection) 0.001 V 1 mg/kg 1 mg/kg 5 mg/kg 0.05 mm
Electrical appliances safety standards : K 10024 : 2012 The remains of a small sealed rechargeable battery Safety (Korean Agency for Technology and Standards Notification No. 2012-0340)	5.1 Appearance 6.2.1 Mercury (Hg) content 6.2.2 Cadmium (Cd) content 6.2.3 Lead (Pb) content 6.2.4 Anti-leak property	Qualitative analysis (visual inspection) 1 mg/kg 1 mg/kg 5 mg/kg 0.05 mm

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
Regulatory Safety Confirmation Standards Annex 41 (Korean Agency for Technology and Standards Notification No. 2017-0032)	Disposable diapers 6.1 pH 6.2 Fluorescent whiten agent 6.3 Formaldehyde 6.4 Chlorinated phenols 6.5 Azo dyes	2 ~ 12 - 20 mg/kg, PCP, TeCP 0.1 mg/kg, 5 mg/kg
Safety check safety standards Annex 10 (Usually the Ministry of Industry Notice No. 2015-0108)	Disposable diapers For Children 6.1 pH 6.2 Fluorescent whiten agent 6.3 Formaldehyde 6.4 Chlorinated phenols 6.5 Azo dyes	2 ~ 12 - 20 mg/kg each 0.1 mg/kg 5 mg/kg
OECD 301 : 1992	OECD Guideline for Testing of Chemicals , Ready Biodegradability 301A. DOC-DieAway Test 301C. Modified MITI Test(I)	1 % 1 %
Regulatory Safety Confirmation Standards Annex 68 (Korean Agency for Technology and Standards Notification No. 2017-18)	Thermal Pack(including pocket warmers) 6.4.1 Content of lead 6.4.2 Content of cadmium 6.4.3 Phthalate Plasticizers 6.4.4 Extraction of harmful elements	5 mg/kg 5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 % Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
Safety Certification Criteria Annex 7 (Korean Agency for Technology and Standards a Notification No.2017-17)	Aquatic Equipment Part 1- Inflatable aquatic equipment 5.9 Extraction of heavy metals 5.10 Phthalate Plasticizers 5.11 Sampling 5.12 Content of lead	- Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 % - 5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
	Part 2 Inflatable Boats	-
	5.15 Extraction of heavy metals	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	5.16 Sampling	-
	5.17 Content of lead	5 mg/kg
	Part 3 Buoyant aids to be worn	-
	6.16.3 Extraction of heavy metals	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	6.16.4 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	6.16.5 Sampling	-
	6.16.6 The Content of lead	5 mg/kg
	6.16.7 Lead of metal materials	5 mg/kg
	6.16.8 Lead of polymer materials	5 mg/kg
	6.16.9 Lead of painting or similar coating	5 mg/kg
	6.16.10 Extraction of harmful elements	5 mg/kg
	Part 4 Requirements and test methods for buoyant devices to be held	-
	6.11.2 Extraction of harmful elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	6.11.3 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	6.11.4 Sampling	-
	6.11.5 Content of lead	5 mg/kg
	Annex 7-A Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	Annex 7-B1 Lead of metal materials	5 mg/kg
	Annex 7-B2 Lead of polymer materials	5 mg/kg
	Annex 7-B3 Lead of painting or similar coating	5 mg/kg
	Annex 7-B4 Lead of other organic material	5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
Hazard concern product designation and safety labeling standards (Ministry of Environment Notice No.2016-254)	[Annex 3] Each item of hazard concern product safety and labeling standards	
	Part2 Metal group	
	Cu	above 0.5 mg/kg
	Pb	above 0.5 mg/kg
	As	above 0.5 mg/kg
	Hg	above 0.05 mg/kg
	Zn	above 0.5 mg/kg
	Ba	above 0.5 mg/kg
	Sn	above 0.5 mg/kg
	Cd	above 0.1 mg/kg
	Cr ⁶⁺ (Cr(VI))	above 0.05 mg/kg
	Ni	above 0.1 mg/kg
	Se	above 0.5 mg/kg
	Ab	above 0.5 mg/kg
	Co	above 0.5 mg/kg
	Ag	above 0.1 mg/kg
	Part3 Aldehyde group	
	Formaldehyde	above 3 mg/kg
	Acetaldehyde	above 3 mg/kg
	Glyoxal	above 2 mg/kg
	Glutaaldehyde	above 5 mg/kg
	Part4 Naphthalene	above 0.5 mg/kg
	Part5 Volatile Organic Compounds	
	Tetrachloroethylene	above 1 mg/kg
	Trichloroethylene	above 0.1 mg/kg
	Benzene	above 1 mg/kg
	Dimethylformamide	above 5 mg/kg
bis(2-Ethylhexyl)phthalate	above 5 mg/kg	
Chloroform	above 5 mg/kg	
Toluene	above 5 mg/kg	

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
	Dichloromethane	above 5 mg/kg
	Ethylbenzene,	above 5 mg/kg
	(1-Methylethyl)benzene	above 5 mg/kg
	m-Xylene	above 5 mg/kg
	p-Xylene	above 5 mg/kg
	o-Xylene	above 5 mg/kg
	Ethyleneoxide	above 5 mg/kg
	Butylcellosolve	above 5 mg/kg
	Isopropanol	above 5 mg/kg
	Limonene	above 5 mg/kg
	Part6 bis(2-Ethylhexyl)phthalate	above 1 mg/kg
	Part7 Polynuclear aromatic hydrocarbons	above 0.1 mg/kg
	Part8 Methanol	above 100 mg/kg
	Part9 Preservative	
	Methylisothiazolinone	above 5 mg/kg
	Chloromethylisothiazolione	above 10 mg/kg
	Benzisothiazolione	above 10 mg/kg
	Part10 Benzylalcohol, Penoxyethanol,	
	Benzoic acid	
	Benzyl alcohol	above 20 mg/kg
	Phenoxyethanol	above 20 mg/kg
	Benzoic acid	above 20 mg/kg
	Part11 Paraben	
	Methylparaben	above 20 mg/kg
	Ethylparaben	above 20 mg/kg
	Popylparaben	above 20 mg/kg
	Butylparaben	above 20 mg/kg
	Part12 3-Iodo-2-propylbutyl -carbamate	above 5 mg/kg
	Part13 Triclosan	above 10 mg/kg
	Part14 Benzalkonium chloride	above 10 mg/kg
	Part15 Sodium hydroxide and Potassium	above 0.01 %

Korea Laboratory Accreditation Scheme

No. KT011

02.033 Household Goods

Test Method	Standard designation	Test range
	hydroxide	
	Part16 Hydrochloric acid and Sulfuric acid	above 0.01 %
	Part17 Chlorine dioxide	above 0.1 mg/kg
	Part18 Phosphate Phosphorus	above 0.1 %
	Part19 Potention of hydrogen, pH	2 ~ 12
	Part20 Nonylphenols	above 5 mg/kg
	Part22 Didecyldimethyl -ammonium chloride	above 5 mg/kg
	Part23 Ethylene glycol	above 500 mg/kg
	Part24 Total Voletile Organic Compounds	above 50 mg/kg
	Part25 Methylethylketone Peroxide	above 50 mg/kg
	Part26 Peroxyacetic acid	above 10 mg/kg

02.034 Children' s Product

Test Method	Standard designation	Test range
KS K ISO 3071 : 2009	Textile-Determination of pH of aqueous extract	2 ~ 12
KS K ISO 14184-1 : 2009	Textile-Determination of formaldehyde Part 1: Free and hydrolized formaldehyde(water extraction method)	above 20 mg/kg
KS K 0147 : 2015	Test method for determination of aryl amine level on the dyestuff and dyed products	above each 5 mg/kg
KS K 0734 : 2012	Test method for determination of arylamines content in polyester textiles	above each 5 mg/kg
ISO 18254-1 : 2016	Textiles -- Method for the detection and determination of alkylphenol ethoxylates (APEO) -- Part 1: Method using HPLC-MS	above each 5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
KS G ISO 81243 : 2013	Safety of toys - Part 3 : Migration of certain elements	each 5 mg/kg
Supplier of appropriate safety standards Annex 4 (Usually the Ministry of Industry Notice No. 2015-0109)	Swimming goggles for children 6.10 Monomer, Solvent-Extraction, Plasticizers	1 mg/kg
ISO 8124-6:2014	Safety of toys - Part 6 : Certain phthalate esters in toys and children's products	-
ISO 8124-5:2015	Safety of toys - Part 5 : Determination of total concentration of certain elements in toys	-
Supplier's Declaration of Conformity Annex 15 (Korean Agency for Technology and Standards Notification No. 2017-0017)	Textile products for children 5.2.1 pH 5.2.2 Content of formaldehyde 5.2.3 Content of aryl amine 5.2.4 Total content of phthalate plasticizers 5.2.5 Content of organic-tin-compounds 5.2.6 Flame proofing agent 5.2.7 Total content of lead 5.2.8 Total content of cadmium 5.2.9 Allergenic dyes 5.2.10 Extraction of nickel 5.2.11 Total content of nonylphenol 5.2.12 Total content dimethylfumarate	2 ~ 12 above 20 mg/kg above each 5 mg/kg above each 0.005 % above 0.5 mg/kg above each 50 mg/kg above 5 mg/kg above 1 mg/kg above each 5 mg/kg above 0.1 $\mu\text{g}/\text{cm}^2/\text{week}$ above each 5 mg/kg above 0.1 mg/kg
Supplier of appropriate safety standards Annex 14 (Usually the Ministry of Industry Notice No. 2015-0109)	Furniture for Children 6.7 pentachlorophenol(PCP) 6.8 Exavalent chrome 6.9 Dimethyl fumarate 6.10 Aryl amine 6.11 Formaldehyde of textiles and leather product 6.12 Content of organic-tin-compounds	1 mg/kg 1 mg/kg 0.1 mg/kg 1 mg/kg 20 mg/kg 1 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
	TBT(tributyltin) 6.13 Color fastness 6.14 Wood material of Formaldehyde, toluene, a total of VOCs Emission Rate 6.15 Extraction of harmful elements 6.16 Content of harmful elements 6.17 Total content of phthalate plasticizers	0.5 grade 0.12 mg/m ² .h, 0.080 mg/m ² .h, 4 mg/m ² .h Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg Pb, Cd : 5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
Supplier of appropriate safety standards Annex 2 (Usually the Ministry of Industry Notice No. 2015-0109)	Swab for Children 5.2 Fluorescent Whiten Agent 5.3 Extraction of harmful elements 5.4 Content of harmful elements 5.5 Total content of phthalate plasticizers	- Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg Pb, Cd : 5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
Safety check safety standards Annex 12 (Usually the Ministry of Industry Notice No. 2015-0108)	Baby walking frames 4.2.1.2 Content of harmful elements 4.5.1.3 Extraction of harmful elements 4.2.1.4 Total content of phthalate plasticizers 4.2.1.5 Content of formaldehyde	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg Pb, Cd : 5mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 % 20 mg/kg
Safety check safety standards Annex 7 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's tricycles 3.2.3 Extraction of harmful elements 3.2.4 Content of harmful elements 3.2.5 Phthalate Plasticizers	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg Pb, Cd : 5 mg/kg DBP, BBP, DEHP, DnOP,

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
		DIDP, DINP : 0.005 %
Safety check safety standards Annex 8 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's chair Part1 : Children's High Chairs 5.4.1 Extraction of harmful elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	5.4.2 Content of harmful elements	Pb, Cd : 5 mg/kg
	5.4.3 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	5.5 Formaldehyde	20 mg/kg
	5.6 Flame-retardant test of textile	1 s, 0.01 mm
	Part2 : Children's booster Chairs 5.4.1 Extraction of harmful elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	5.4.2 Content of harmful elements	Pb, Cd : 5 mg/kg
	5.4.3 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	5.5 Formaldehyde	20mg/kg
	5.6 Flame-retardant test of textile	1 s, 0.01 mm
Regulatory Safety Confirmation Standards Annex 11 (Ministry of Trade, Industry & Energy Notification No.	Part3 : Children's table mounted Chairs 5.4.1 Extraction of harmful elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	5.4.2 Content of harmful elements	Pb, Cd : 5 mg/kg
	5.4.3 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	5.5 Formaldehyde	20mg/kg
	5.6 Flame-retardant test of textile	1 s, 0.01 mm
	School things	each 5 mg/kg
	5.2 Migration of harmful elements	each 5 mg/kg
	5.3 Content of harmful element	each 0.005 %
	5.4 Phthalate Plasticizers	5 mg/kg
	5.7 Formaldehyde	2 ~ 12

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
2017-0016)	5.9 pH(liquid pool) 5.10 Coloring matter, Directional amine and Preservatives	5 mg/kg
ISO 8124-3 : 2010/Amd 1 : 2014	Safety of toys - Part 3 : Migration of certain elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
Safety check safety standards Annex 13 (Usually the Ministry of Industry Notice No. 2015-0108)	Baby Carriage 6.2.3.2 Content of harmful elements 6.2.3.3 Extraction of harmful elements 6.2.3.4 Total content of phthalate plasticizers 6.2.3.5 Formaldehyde detection of packaging	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg Pb, Cd : 5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 % 20 mg/kg
Safety check safety standards Annex 14 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's cots Part 1. general security requirement 4.1 Extraction of harmful elements 4.2 Content of harmful elements 4.3 Total content of phthalate plasticizers 4.4 formaldehyde of textile	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg Pb, Cd : 5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 % 20 mg/kg
Regulatory Safety Confirmation Standards Annex 6 (Korean Agency for Technology and Standards Notification No. 2017-0016)	Toy Part 4 harmful elements 8.1 Migration of harmful elements Category 1, 2	above Al, Sb, Ba, B, Cu, Mn, Ni, Sr, Sn, Zn, Cr(III) 5 mg/kg, Co, Pb, Se 1 mg/kg As, Hg 0.5 mg/kg, Cd, Organictin 0.1 mg/kg Cr(VI) 0.001 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
	8.2 Migration of harmful elements Category 3	above Al, Sb, Ba, B, Cu, Mn, Ni, Sr, Sn, Zn, Cr(III) 5 mg/kg, Co, Pb, Se 1 mg/kg As, Hg 0.5 mg/kg, Cd, Organotin 0.1 mg/kg Cr(VI) 0.001 mg/kg
	8.3 Lead, Cadmium	above 5 mg/kg (Pb), 1 mg/kg (Cd)
	8.4 Extraction of nickel	above 0.1 µg/cm ² /week
	8.5 Phthalate plasticizers	above each 0.005 %
	Part 7 Finger paint 5.2 Colourants	
	5.3 Migration of harmful elements	above each 5 mg/kg
	5.4 Primary aromatic amines	above 2 mg/kg
	5.5 pH	2 ~ 12
	Part 8 - Organic chemical substance - Requirement	
	4.3 Formaldehyde	above 20 mg/kg
	Part 9 - Organic chemical substance - Preparation and extraction of samples Part 10 - Organic chemical substance - Analytical methods	
	5.2 Flame retardants	above 5 mg/kg
	5.3 Colourants	above 10 mg/kg
	5.4 Primary aromatic amines	above 2 mg/kg
	5.5 Monomers(migration) and solvents	above 0.5 mg/kg
	5.6 Wood preservatives	above 5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
	5.7 Preservatives 5.8 Phthalate plasticizers 5.9 Ethyl acetate, Methyl alcohol	above 2 mg/kg above 0.03 mg/L above 5 mg/kg
Regulatory Safety Confirmation Standards Annex 1 (Korean Agency for Technology and Standards Notification No. 2017-0016)	Textile products for infant 5.2.1 Formaldehyde 5.2.2 Organic tin compounds 5.2.3 Aryl amine 5.2.4 Total content of phthalate plasticizers 5.2.5 Flame proofing agent 5.2.6 pH 5.2.7 Total content of lead 5.2.8 Total content of cadmium 5.2.9 Allergenic dyes 5.2.10 Extraction of nickel 5.2.11 Total content of nonylphenol 5.2.12 Total content dimethylfumarate	above 20 mg/kg above each 0.5 mg/kg above each 5 mg/kg above each 0.005 % above each 50 mg/kg 2 ~ 12 above 5 mg/kg above 1 mg/kg above each 5 mg/kg above 0.1 $\mu\text{g}/\text{cm}^2/\text{week}$ above each 5 mg/kg above 0.1 mg/kg
Regulatory Safety Confirmation Standards Annex 2 (Korean Agency for Technology and Standards Notification No. 2017-0016)	Care articles for children Part 1 : Children's bedguards 5.4.1 Migration of harmful elements 5.4.2 Content of harmful elements 5.4.3 Total content of phthalate plasticizers 5.4.4 Formaldehyde Part 2 : Soothers for babies and young children 5.2.1 Migration of harmful elements 5.2.2 Content of harmful elements	above each 5 mg/kg above 5 mg/kg (Pb), 1 mg/kg (Cd) above each 0.005 % above 20 mg/kg above each 5 mg/kg above 5 mg/kg (Pb), 1 mg/kg (Cd)

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
	5.2.3 Total content of phthalate plasticizers	above each 0.005 %
	5.2.4 Formaldehyde in textiles	above 20 mg/kg
	5.2.5 Nitrosamine and nitrosamines	above 0.01 mg/kg
	5.2.6 Extraction of 2-mercaptoimidazoline	above 0.1 mg/kg
	5.2.7 Extraction of formaldehyde	above 1 mg/kg
	5.2.8 Extraction of phenol	above 2 mg/kg
	5.2.9 Extraction of bisphenol-A(BPA)	above 0.5 mg/kg
	Part 3 : Soother holder for babies and young children	
	5.2.1 Migration of harmful elements	above each 5 mg/kg
	5.2.2 Content of harmful elements	above 5 mg/kg (Pb), 1 mg/kg (Cd)
	5.2.3 Extraction of nickel	above 0.1 $\mu\text{g}/\text{cm}^2/\text{week}$
	5.2.4 Total content of phthalate plasticizers	above each 0.005 %
	5.2.5 Formaldehyde in textiles	above 20 mg/kg
Regulatory Safety Confirmation Standards Annex 69 (Korean Agency for Technology and Standards Notification No. 2017-0032)	Nursing Pads 6.1 pH 6.2 Fluorescent Whiten Agent 6.3 Formaldehyde 6.4 Chlorinated phenols 6.5 Azo dyes 6.6 Lead and Cadmium	2 ~ 12 Qualitative analysis (visual inspection) 20 mg/kg each 0.1 mg/kg each 1 mg/kg each 5 mg/kg
Supplier of appropriate safety standards Annex 11 (Usually the Ministry of Industry Notice No. 2015-0109)	Children's Jewelry 5.3 Harmful elements 5.3.2 Lead and Cadmium 5.3.3 Nickel Leaching test 5.3.4 Phthalate Plasticizers 5.3.5 Extraction of harmful elements 5.4 Joints	each 5 mg/kg each 5 mg/kg 0.1 $\mu\text{g}/\text{cm}^2/\text{week}$ each 0.005 % 5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
Children's Products Common Safety Standard (Korean Agency for Technology and Standards Notification No. 2017-0018)	Children's Products Common Safety Standard	
	6.1.1 Migration of harmful elements	above each 5 mg/kg
	6.1.2 Total content of phthalate plasticizers	above each 0.005 %
	6.1.3 Content of harmful elements	above 5 mg/kg (Pb), 1 mg/kg (Cd)
	6.1.4 pH	2 ~ 12
	6.1.5 Formaldehyde 6.1.6 Aryl amine	above 20 mg/kg above each 5 mg/kg
Safety check safety standards Annex 16 (Usually the Ministry of Industry Notice No. 2015-0108)	Children's Carrier Part1. Children's Soft Carrier	
	6.2.1.1 Extraction of harmful elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	6.2.1.2 Content of harmful elements	Pb, Cd : 5 mg/kg
	6.2.1.3 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	6.2.2 Formaldehyde	20 mg/kg
	Part2. Children's Frame Carrier	
	6.2.1.1 Extraction of harmful elements	Pb, Cd, Cr, As, Ba, Sb, Se, Hg : 5 mg/kg
	6.2.1.2 Content of harmful elements	Pb, Cd : 5mg/kg
	6.2.1.3 Phthalate Plasticizers	DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 %
	6.2.2 Formaldehyde	20 mg/kg
CPSC-CH-C1001-0 09.3	Standard Operating Procedure for Determining of Phthalates	50 ppm
CPSC-CH-E1001-0 8.3	Standard Operating Procedure for Determining Total Lead (Pb) in Metal Children's Products(Including Children's Metal Jewelry)	10 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children's Product

Test Method	Standard designation	Test range
CPSC-CH-E1002-0 8.3	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products	10 mg/kg
CPSC-CH-E1004-11	Standard Operating Procedure for Determining Cadmium(Cd) Extractability from Children's Metal Jewelry	5 µg
CPSC-CH-E1003-09.1	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings Lead (Pb)	- 5 mg/kg
Supplier's Declaration of Conformity Annex 1 (Ministry of Trade, Industry & Energy Notification No. 2017-0017)	Leather products for Children 5.2.1 Content of formaldehyde 5.2.2 Content of chlorinated phenols 5.2.3 Content of hexavalent chrome 5.2.4 Content of dimethyl fumarate 5.2.5 Content of aryl amine 5.2.6 Content of harmful elements 5.2.7 Content of organic-tin-compounds 5.2.8 Total content of phthalate plasticizers 5.2.9 Extraction of nickel	20 mg/kg 0.5 mg/kg 0.5 mg/kg 0.1 mg/kg 1 mg/kg Pb, Cd : 5 mg/kg DBT, TBT : 0.5 mg/kg DBP, BBP, DEHP, DnOP, DIDP, DINP : 0.005 % 0.5 µg/cm ² /week
EN 71-3 : 2013+A1 : 2014	Safety of toys — Part 3 : Migration of certain elements	
	9.1 Al	5 mg/kg
	9.1 Sb	5 mg/kg
	9.1 As	0.5 mg/kg
	9.1 Ba	5 mg/kg
	9.1 B	5 mg/kg
	9.1 Cd	0.1 mg/kg
	9.1 Co	1 mg/kg
	9.1 Cu	5 mg/kg
	9.1 Pb	1 mg/kg
9.1 Mn	5 mg/kg	

Korea Laboratory Accreditation Scheme

No. KT011

02.034 Children' s Product

Test Method	Standard designation	Test range
	9.1 Hg 9.1 Ni 9.1 Se 9.1 Sr 9.1 Sn 9.1 Zn 9.2 Cr(III) 9.2 Cr(VI) 9.3 Organic tin	0.5 mg/kg 5 mg/kg 1 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 0.001 mg/kg 0.1 mg/kg
EN 71-9 : 2005+A1 : 2007	Safety of toys - Part 9 : Organic chemical compounds - Requirements	-
EN 71-10 : 2005	Safety of toys - Part 10 : Organic chemical compounds - Sample preparation and extraction	-
EN 71-11 : 2005	Safety of toys - Part 11 : Organic chemical compounds - Methods of analysis	-
GB 6675.4-2014	Safety of toys—Part 4 : Migration of certain elements	each 5 mg/kg

Korea Laboratory Accreditation Scheme

No. KT011

03. Electric Test

03.002 Wiring devices

Test method	Standard designation	Test range
KC 60730-1 : 2015	Automatic electrical controls for household and similar use. Part 1 : General requirements	(0 ~ 690) V
KC 60730-2-1 : 2015	Automatic electrical controls for household and similar use Part 2-1 : Particular requirements electrical controls for electrical household appliances	(0 ~ 30) A
K 60730-2-2 : 2009	Automatic electrical controls for household and similar use. Part 2-2 : particular requirements for thermal motor protectors	(0 ~ 11) kW
KC 60730-2-3 : 2015	Automatic Electrical controls for household and similar use -Part 2-3 : Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	(0 ~ 300) °C
KC 60730-2-4 : 2015	Automatic Electrical controls for household and similar use -Part 2-4 : Particular requirements for thermal motor protectors for motor-compressors of hermetic and semi-hermetic type	(0 ~ 11) kW
KC 60730-2-5 : 2015	Automatic electrical controls for household and similar use Part 2-5 : Particular requirements for automatic electrical burner control systems	(0 ~ 30) A
K 60730-2-6 : 2009	Automatic electrical controls for household and similar use- Part 2-6 : particular requirements for automatic electrical pressure sensing controls including mechanical requirements	(0 ~ 4.2) MPa

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
K 60730-2-7 : 2009	Automatic electrical controls for household and similar use. Part 2-7 : Particular requirements for timers and time switches	(0 ~ 30) A
KC 60730-2-8 : 2015	Automatic electrical controls for household and similar use Part 2-8 : Particular requirements electrically operated water valves, including mechanical requirements	(0 ~ 300) °C
K 60730-2-9 : 2011	Automatic electrical controls for household and similar use – Part 2 – 9 : Particular requirements for temperature sensing controls	(0 ~ 300) °C
K 60730-2-10 : 2009	Automatic electrical controls for household and similar use. Part 2-10 : Particular requirements for motor-starting relays	(0 ~ 30) A
K 60730-2-11 : 2009	Automatic electrical controls for household and similar use. Part 2-11 : Particular requirements for energy regulators	(0 ~ 30) A
KC 60730-2-12 : 2015	Automatic Electrical controls for household and similar use -Part 2-12 : Particular requirements for electrically operated door locks	(0 ~ 660) V
KC 60730-2-13 : 2015	Automatic electrical controls for household and similar use - Part 2-13 : Particular requirements for humidity sensing controls	(0 ~ 300) °C
KC 60730-2-14 : 2015	Automatic electrical controls for household and similar use -Part 2-14 : Particular requirements for electric actuators	(0 ~ 690) V

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
KC 60730-2-15 : 2015	Automatic Electrical controls for household and similar use -Part 2-15 : Particular requirements for automatic electrical water level sensing controls of the float or electrode-sensor type used in boiler applications	(0 ~ 2) MPa
KC 60730-2-16 : 2015	Automatic Electrical controls for household and similar use -Part 2-16 : Particular requirements for automatic electrical water level controls of the float type for household and similar applications	(0 ~ 30) A
KC 60730-2-17 : 2015	Automatic Electrical controls for household and similar use -Part 2-17 : Particular requirements for electrically operated gas valves, including mechanical requirements	(0 ~ 0.4) MPa
K 60730-2-18 : 2003	Automatic Electrical controls for household and similar use -Part 2-18 : Particular requirements for automatic electrical water and air flow sensing controls, including mechanical requirements	(0 ~ 30) A
KC 60730-2-19 : 2015	Automatic Electrical controls for household and similar use -Part 2-19 : Particular requirements for electrically operated oil valves, including mechanical requirements	(0 ~ 150) mm
KS C IEC 60730-1 : 2002	Automatic electrical controls for household and similar use –Part 1 : General requirements	(-200 ~ 1 270) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
KS C IEC 60730-2-1 : 2002	Automatic electrical controls for household and similar use—Part 2-1 : Particular requirements for electrical controls for electrical household appliances	(0 ~ 690) V
KS C IEC 60730-2-2 : 2014	Automatic electrical controls for household and similar use—Part 2-2 : Particular requirements for thermal motor protectors	(0 ~ 30) A
KS C IEC 60730-2-3 : 2002	Automatic electrical controls for household and similar use—Part 2-3 : Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	(0 ~ 11) kW
KS C IEC 60730-2-4 : 2002	Automatic electrical controls for household and similar use—Part 2-4 : Particular requirements for thermal motor protectors for motor-compressors of hermetic and semi-hermetic type	(0 ~ 300) °C
KS C IEC 60730-2-5 : 2002	Automatic electrical controls for household and similar use—Part 2-5 : Particular requirements for automatic electrical burner control systems	(0 ~ 11) kW
KS C IEC 60730-2-6 : 2014	Automatic electrical controls for household and similar use—Part 2-6 : Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	(0 ~ 30) A
KS C IEC 60730-2-7 : 2014	Automatic electrical controls for household and similar use—Part	(0 ~ 4.2) MPa

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
	2-7 : Particular requirements for times and time switches	
KS C IEC 60730-2-8 : 2002	Automatic electrical controls for household and similar use—Part 2-8 : Particular requirements electrically operated water valves, including mechanical requirements	(0 ~ 30) A
KS C IEC 60730-2-9 : 2014	Automatic electrical controls for household and similar use—Part 2-9 : Particular requirements for temperature sensing controls	(0 ~ 300) °C
KS C IEC 60730-2-10 : 2014	Automatic electrical controls for household and similar use—Part 2-10 : Particular requirements for electrically operated motor starting relays	(0 ~ 300) °C
KS C IEC 60730-2-11 : 2014	Automatic electrical controls for household and similar use—Part 2-11 : Particular requirements for energy regulators	(0 ~ 30) A
KS C IEC 60730-2-12 : 2003	Automatic electrical controls for household and similar use—Part 2-12 : Particular requirements for electrically operated door locks	(0 ~ 30) A
KS C IEC 60730-2-13 : 2002	Automatic electrical controls for household and similar use—Part 2-13 : Particular requirements for humidity sensing controls	(0 ~ 660) V
KS C IEC 60730-2-14 : 2003	Automatic electrical controls for household and similar use—Part 2-14 : Particular requirements for electric actuators	(0 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
KS C IEC 60730-2-15 : 2003	Automatic electrical controls for household and similar use—Part 2–15 : Particular requirements for automatic electrical water level sensing controls of the float or electrode-sensor type used in boiler applications	(0 ~ 690) V
KS C IEC 60730-2-16 : 2003	Automatic electrical controls for household and similar use—Part 2–16 : Particular requirements for automatic electrical water level controls of the float type for household and similar applications	(0 ~ 30) A
KS C IEC 60730-2-17 : 2003	Automatic electrical controls for household and similar use— Part 2–17 : Particular requirements for electrically operated gas valves, including mechanical requirements	(0 ~ 2) MPa
KS C IEC 60730-2-18 : 2014	Automatic electrical controls for household and similar use—Part 2–18 : Particular requirements for automatic electrical water and air flow sensing controls, including mechanical requirements	(0 ~ 0.4) MPa
KS C IEC 60730-2-19 : 2003	Automatic electrical controls for household and similar use—Part 2–19 : Particular requirements for electrically operated oil valves, including mechanical requirements	(0 ~ 30) A
KS C 8436 : 2012	Boxes and covers of plastic conduits	(0 ~ 150) mm
KS C 8458 : 2012	Box and box cover for rigid metal conduits	(0 ~ 150) mm

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
IEC 60730-1 : 2013	Automatic electrical controls - Part 1 : General requirements	(0 ~ 690) V
IEC 60730-2-2 : 2005	Automatic electrical controls for household and similar use Part 2-2 : Particular requirements for thermal motor protectors	(0 ~ 30) A
IEC 60730-2-3 : 2006	Automatic electrical controls for household and similar use Part 2-3 : Particular requirements for thermal protectors for ballast for tubular fluorescent lamps	(0 ~ 11) kW
IEC 60730-2-4 : 2006	Automatic electrical controls for household and similar use Part 2-4 : Particular requirements for thermal protectors for motor-compressors of hermetic and semi-hermetic type	(0 ~ 300) °C
IEC 60730-2-5 : 2013	Automatic electrical controls - Part 2-5 : Particular requirements for automatic electrical burner control systems	(0 ~ 11) kW
IEC 60730-2-6 : 2007	Automatic electrical controls for household and similar use Part 2-6 : Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	(0 ~ 30) A
IEC 60730-2-7 : 2008	Automatic electrical controls for household and similar use Part 2-7 : Particular requirements for timers and time switches	(0 ~ 4.2) MPa
IEC 60730-2-8 : 2003	Automatic electrical controls for household and similar use Part 2-8 : Particular requirements for electrically	(0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
	operated water valves including mechanical requirements	
IEC 60730-2-9 : 2011	Automatic electrical controls for household and similar use Part 2-9 : Particular requirements for temperature sensing controls	(0 ~ 300) °C
IEC 60730-2-10 : 2006	Automatic electrical controls for household and similar use Part 2-10 : Particular requirements for electrically operated motor starting relays	(0 ~ 300) °C
IEC 60730-2-11 : 2006	Automatic electrical controls for household and similar use Part 2-11 : Particular requirements for energy regulators	(0 ~ 30) A
IEC 60730-2-12 : 2005	Automatic electrical controls for household and similar use Part 2-12 : Particular requirements for electrically operated door locks	(0 ~ 30) A
IEC 60730-2-13 : 2006	Automatic electrical controls for household and similar use Part 2-13 : Particular requirements for humidity sensing controls	(0 ~ 660) V
IEC 60730-2-14 : 2008	Automatic electrical controls for household and similar use Part 2-14 : Particular requirements for electric actuators	(0 ~ 300) °C
IEC 60730-2-15 : 2008	Automatic electrical controls for household and similar use Part 2-15 : Particular requirements for automatic electrical water level sensing controls of the float type or electrode-sensor type used in boiler applications	(0 ~ 690) V

Korea Laboratory Accreditation Scheme

No. KT011

03.002 Wiring devices

Test method	Standard designation	Test range
IEC 60730-2-17 : 2007	Automatic electrical controls for household and similar use Part 2-17 : Particular requirements for electrically operated gas valves including mechanical requirements	(0 ~ 2) MPa
IEC 60730-2-19 : 2007	Automatic electrical controls for household and similar use Part 2-19 : Particular requirements for electrically operated oil valves, including mechanical requirements	(0 ~ 30) A

03.004 Electrical materials and components

Test method	Standard designation	Test range
KC 60669-1 : 2015	Switches for household and similar fixed-electrical installations Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 50) A
KC 60669-2-1 : 2015	Switches for household and similar fixed electrical installations - Part 2-1 : Particular requirements - Electronic switches	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 275) V, (0 ~ 34) A
KC 60669-2-2 : 2015	Switches for household and similar fixed electrical installation - Part 2 : Particular requirements - Section 2 : Electromagnetic remote-control switches (RCS)	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 50) A

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
KC 60669-2-3 : 2015	Switches for household and similar fixed electrical installation - Part 2-3 : Particular requirements - Time-delay switches(T.D.S)	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 50) A
KC 60320-1 : 2015	Appliance couplers for household and similar general purposes Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 275) V, (0 ~ 20) A
KC 60320-2-1 : 2015	Appliance couplers for household and similar general purposes Part 2-1 : Sewing machine couplers	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 275) V, (0 ~ 20) A
K 60320-2-2 : 2006	Appliance couplers for household and similar general purposes Part 2-2 : Interconnection couplers for household and similar equipment	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 275) V, (0 ~ 15) A
KC 60320-2-3 : 2015	Appliance couplers for household and similar general purposes Part 2-3 : Appliance coupler with a degree of protection higher than IPX0	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 275) V, (0 ~ 20) A
KC 60884-1 : 2014	Plugs and socket - outlets for household and similar purpose Part1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A
KC 60884-2-1 : 2015	Plugs and Socket-outlets for household and similar purposes Part 2-1 : Particular requirements for fused plugs	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
KC 60884-2-2 : 2015	Plugs and Socket-outlets for household and similar purposes Part 2-2 : Particular requirements for Socket-outlets for Appliances	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
KC 60884-2-3 : 2015	Plugs and Socket-outlets for household and similar purposes Part 2-3 : Particular requirements for Switched Socket-outlets without interlock for fixed installations	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
KC 60884-2-5 : 2015	Plugs and Socket-outlets for household and similar purposes Part 2-5 : Particular requirements for Adaptors	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
KC 60884-2-6 : 2015	Plugs and Socket-outlets for household and similar purposes Part 2-6 : Particular requirements for switched socket-outlets with interlock for fixed electrical installations	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
KC 61242 : 2015	Electrical accessories - Cable reels for household and similar purposes	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V, (0 ~ 24) A
KC 61058-1 : 2015	Switches for appliances Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 50) A
KC 61058-2-1 : 2015	Switches for appliances Part 2-1 : Particular requirements for cord switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 50) A

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
KC 61058-2-4 : 2015	Switches for appliances Part 2-4 : Particular requirements for independently mounted switches	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 552) V, (0 ~ 50) A
KC 61058-2-5 : 2015	Switches for appliances Part 2-5 : Particular requirements for change-over switches	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 552) V, (0 ~ 50) A
KC 60884-2-4 : 2015	Plugs and Socket-outlets for household and similar purposes Part 2-4 : Particular requirements for Plugs and Socket-outlets for SELV	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A
KC 60998-1 : 2015	Connecting devices for low-voltage circuits for household and similar purposes -Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KC 60998-2-2 : 2015	Connecting devices for low voltage circuits for household and similar purposes Part 2-2 : Particular requirements for connecting devices as separate entities with screwless-type clamping units	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KC 60998-2-3 : 2015	Connecting devices for low voltage circuits for household and similar purposes Part 2-3 : Particular requirements for connecting devices as separate entities with insulation piercing clamping units	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KC 60998-2-4 : 2015	Connecting devices for low voltage circuits for household and similar purposes Part 2-4 : Particular requirements for twist-on connecting devices	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
KC 60998-2-5 : 2015	Connecting devices for low voltage circuits for household and similar purposes Part 2-5 : Particular requirements for connecting boxes (junction and/or tapping) for terminals or connecting devices	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KC 62133 : 2015	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made them, for use in portable applications	(0 ~ 80) V (0 ~ 40) A (-40 ~ 150) $^{\circ}$ C (0 ~ 30) kN
KS C IEC 60669-1 : 2008	Switches for household and similar fixed-electrical installations – Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 50) A
KS C IEC 60669-2-1 : 2005	Switches for household and similar fixed electrical installations – Part 2 – 1 : Particular requirements – Electronic switches	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 275) V, (0 ~ 34) A
KS C IEC 60669-2-2 : 2008	Switches for household and similar fixed electrical installations – Part 2 : Particular requirements – Section 2 : Electromagnetic remote-control switches(RCS)	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 50) A
KS C IEC 60669-2-3 : 2008	Switches for household and similar fixed electrical installations – Part 2 – 3 : Particular requirements – Time delay switches(TDS)	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 50) A
KS C IEC 60884-1 : 2010	Switches for household and similar fixed-electrical installations – Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
KS C IEC 60884-2-1 : 2008	Plugs and socket-outlets for household and similar purposes – Part 2–1 : Particular requirements for fused plugs	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A
KS C IEC 60884-2-2 : 2008	Plugs and socket-outlets for household and similar purposes – Part 2–2 : Particular requirements for socket-outlets for appliances	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A
KS C IEC 60884-2-3 : 2008	Plugs and socket-outlets for household and similar purposes – Part 2–3 : Particular requirements for switched socket-outlets without interlock for fixed installations	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 484) V, (0 ~ 40) A
KS C IEC 60998-2-3 : 2008	Connecting devices for low-voltage circuits for household and similar purposes – Part 2–3 : Particular requirements for connecting devices as separate entities with insulation-piercing clamping units	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KS C IEC 60998-2-4 : 2008	Connecting devices for low-voltage circuits for household and similar purposes – Part 2-4 : Particular requirements for twist-on connecting devices	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KS C IEC 60998-2-5 : 2002	Connecting devices for low-voltage circuits for household and similar purposes Part 2–5 : Particular requirements for connecting boxes(junction and/or tapping) for terminals or connecting devices	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C, (0 ~ 960) $^{\circ}$ C, (0 ~ 600) V
KS C IEC 61058-1 : 2012	Switches for appliances – Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) $^{\circ}$ C,

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
		(0 ~ 960) °C, (0 ~ 552) V, (0 ~ 50) A
KS C IEC 61058-2-1 : 2012	Switches for appliances—Part 2-1 : Particular requirements for cord switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 50) A
KS C IEC 61058-2-4 : 2003	Switches for appliances—Part 2-4 : Particular requirements for independently mounted switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 50) A
KS C IEC 61058-2-5 : 2012	Switches for appliances—Part 2-5 : Particular requirements for change-over switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 50) A
KS C IEC 60320-1 : 2012	Appliance couplers for household and similar general purposes—Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 20) A
KS C IEC 60320-2-1 : 2002	Appliance couplers for household and similar general purposes Part 2-1 : Sewing machine couplers	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 20) A
KS C IEC 60320-2-2 : 2002	Appliance couplers for household and similar general purposes—Part 2-2 : Interconnection couplers for household and similar equipment	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 15) A
KS C IEC 60320-2-3 : 2012	Appliance coupler for household and similar general purposes—Part 2-3 : Appliance coupler with a degree	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
	of protection higher than IPX0	(0 ~ 275) V, (0 ~ 20) A
KS C IEC 60884-2-4 : 2002	Plugs and socket-outlets for household and similar purposes – Part 2-4 : Particular requirements for plugs and socket-outlets for SELV	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 40) A
KS C IEC 60884-2-5 : 2002	Plugs and socket-outlets for household and similar purposes – Part 2-5 : Particular requirements for adaptors	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 60) A
KS C IEC 60884-2-6 : 2002	Plugs and socket-outlets for household and similar purposes – Part 2-6 : Particular requirements for switched socket-outlets with interlock for fixed electrical installations	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 40) A
KS C IEC 61242 : 2012	Electrical accessories – Cable reels for household and similar purposes	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V, (0 ~ 24) A
KS C IEC 60998-1 : 2003	Connecting devices for low-voltage circuits for household and similar purposes – Part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
KS C IEC 60998-2-2 : 2012	Connecting devices for low voltage circuits for household and similar purposes Part 2-2 : Particular requirements for connecting devices as separate entities with screwless-type clamping units	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
KS C 4514 : 1988	Remote Control Relays and Remote Control Switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
		(0 ~ 960) °C, (0 ~ 484) V, (0 ~ 50) A
KS C 4508 : 2012	Sensitive switches	(0 ~ 5 000) MΩ, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V, (0 ~ 25) A
K 62133 : 2012	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made them, for use in portable applications 4.2.3 Moulded case stress at high ambient temperature 4.2.4 Temperature cycling 4.3.2 External short circuit 4.3.5 Thermal abuse 4.3.6 Crushing of cells 4.3.11 Cell protection against a high charging rate(lithium systems only)	(0 ~ 42) V (0 ~ 20) A (-40 ~ 150) °C (0 ~ 30) kN
KC 60799 : 2015	Electrical accessories - Cord sets and interconnection cord sets	(0 ~ 5 000) MΩ, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V, (0 ~ 50) A
K 10026 : 2013	Standby power cut-off outlet	(0 ~ 150) mm, (0 ~ 1 000) MΩ, (0 ~ 30) A, (0 ~ 600) V
IEC 61058-1 : 2008	Switches for appliance Part 1 : General requirements	(0 ~ 5 000) MΩ, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 552) V, (0 ~ 60) A
IEC 61058-2-5 : 2010	Switches for appliance Part 2-5 : Particular requirements for changeover	(0 ~ 5 000) MΩ, (0 ~ 125) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
	selectors	(0 ~ 960) °C, (0 ~ 552) V, (0 ~ 60) A
IEC 60669-1 : 2007	Switches for household and similar fixed-electrical installations - part 1 : General requirements	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 50) A
IEC 60669-2-1 : 2009	Switches for household and similar fixed-electrical installations - part 2-1 : Particular requirements for electronic switches	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 34) A
IEC 60320-2-3 : 2006	Appliance coupler for household and similar General purposes - part2-3 : Appliance coupler with a degree of protection higher than IPX0	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 20) A
IEC 60884-1 : 2013	Plugs and socket-outlets for household and similar purpose part 1 : General requirements	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
IEC 60884-2-1 : 2006	Plugs and socket-outlets for household and similar purpose part 2-1 : Particular requirements for fused plugs	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
IEC 60884-2-2 : 2006	Plugs and socket-outlets for household and similar purpose part 2-2 : Particular requirements for socket-outlets for appliances	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
IEC 60884-2-3 : 2006	Plugs and socket-outlets for household and similar purpose part 2-3 : Particular requirements for switched socket-outlets without interlock for fixed installations	(0 ~ 5 000) M.Ω, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
IEC 60884-2-4 : 2007	Plugs and socket-outlets for household and similar purpose part 2-4 :	(0 ~ 5 000) M.Ω, (0 ~ 125) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
	Particular requirements for plugs and socket-outlets for SELV	(0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
IEC 60998-1 : 2002	Connecting devices for low-voltage circuits for household and similar purposes part 1 : General requirements	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
IEC 60998-2-2 : 2002	Connecting devices for low-voltage circuits for household and similar purposes part2-2 : Particular requirements for connecting devices as separate entities screwless-type clamping units	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
IEC 60998-2-3 : 2002	Connecting devices for low-voltage circuits for household and similar purposes part2-3 : Particular requirements for connecting devices as separate entities with insulation-piercing clamping units	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
IEC 60998-2-4 : 2004	Connecting devices for low-voltage circuits for household and similar purposes part2-4 : Particular requirements for twist-on connecting devices	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
IEC 61058-2-1 : 2010	Switches for appliance Part 2-1 : Particular requirements for cord switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
IEC 61058-2-4 : 2003	Switches for appliance Part 2-4 : Particular requirements for independently mounted switches	(0 ~ 5 000) M Ω , (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V
IEC 60320-2-2 :	Appliance coupler for household and	(0 ~ 5 000) M Ω ,

Korea Laboratory Accreditation Scheme

No. KT011

03.004 Electrical materials and components

Test method	Standard designation	Test range
1998	similar General purposes - part 2-2 : interconnection couplers for household and similar equipment	(0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 275) V, (0 ~ 15) A
IEC 61242 : 1995	Electrical accessories-cable reels for household and similar purposes	(0 ~ 5 000) MΩ, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 600) V, (0 ~ 24) A
IEC 60884-2-5 : 1995	Plugs and socket-outlets for household and similar purpose part 2-5 : Particular requirements for adaptors	(0 ~ 5 000) MΩ, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
IEC 60884-2-6 : 1997	Plugs and socket-outlets for household and similar purpose part 2-6 : Particular requirements for switched socket-outlets without interlock for fixed electrical installations	(0 ~ 5 000) MΩ, (0 ~ 125) °C, (0 ~ 960) °C, (0 ~ 484) V, (0 ~ 40) A
KS C IEC 61960 : 2008	Secondary cells and batteries containing alkaline or other non-acid electrolytes. Secondary lithium cells and batteries for portable applications	(0~80) V (0~40) A (-40~150) °C
IEC 61960 : 2011	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications	(0~80) V (0~40) A (-40~150) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KC 60745-1 : 2015	Hand-held motor-operated electric tools- Safety- Part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-1 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-2 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-3 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-3 : Particular requirements for grinders, polishers and disk-type sanders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-4 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-4 : Particular requirements for sanders and polishers other than disk type	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-5 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-5 : Particular requirements for circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KC 60745-2-6 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-6 : Particular requirements for hammers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-7 : 2015	Safety of hand-held motor-operated electric tools. Part 2 : Particular requirements for spray guns for non-flammable liquids	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-8 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-8 : Particular requirements for shears and nibblers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-9 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-9 : Particular requirements for tappers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-11 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-11 : Particular requirements for reciprocating saws (jig and sabre saws)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-12 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-12 : Particular requirements for concrete vibrators	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KC 60745-2-13 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-13 : Particular requirements for chain saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-14 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-15 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-15 : Particular requirements for hedge trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-16 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-16 : Particular requirements for tackers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 60745-2-17 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-17 : Particular requirements for routers and trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-1 : 2015	Safety of transportable motor-operated electric tools - Part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KC 61029-2-1 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-2 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for radial arm saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-3 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for planers and thicknessers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-4 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for bench grinders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-5 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for band saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-6 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond drills with water supply	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-7 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular	AC (0 ~ 600) V,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
	requirements for diamond saws with water supply	(0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-8 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for single spindle vertical moulders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-9 : 2015	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for mitre saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KC 61029-2-10 : 2015	Safety of transportable motor-operated electric tools - Part 2-10 : Particular requirements for cutting-off grinders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
K 60974-1 : 2010	Arc welding equipment - Part 1: Welding power sources	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 62040-1 : 2011	Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 60745-1 : 2015	Hand-held motor-operated electric tools-Safety- Part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KS C IEC 60745-2-1 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-2 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-3 : 2007	Hand-held motor-operated electric tools - Safety - Part 2-3 : Particular requirements for grinders, polishers and disk-type sanders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-4 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-4 : Particular requirements for sanders and polishers other than disk type	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-5 : 2002	Hand-held motor-operated electric tools - Safety - Part 2-5 : Particular requirements for circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-6 : 2003	Hand-held motor-operated electric tools - Safety - Part 2-6 : Particular requirements for hammers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-7 : 2003	Safety of hand-held motor-operated electric tools. Part 2 : Particular requirements for spray guns for non-flammable liquids	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
		Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-8 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-8 : Particular requirements for shears and nibblers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 600745-2-9 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-9 : Particular requirements for tappers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-11 : 2007	Hand-held motor-operated electric tools - Safety - Part 2-11 : Particular requirements for reciprocating saws (jig and sabre saws)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-12 : 2015	Hand-held motor-operated electric tools - Safety - Part 2-12 : Particular requirements for concrete vibrators	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-13 : 2007	Hand-held motor-operated electric tools - Safety - Part 2-13 : Particular requirements for chain saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-14 : 2002	Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-15 : 2014	Hand-held motor-operated electric tools - Safety - Part 2-15 : Particular requirements for hedge trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
		Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-16 : 2004	Hand-held motor-operated electric tools - Safety - Part 2-16 : Particular requirements for tackers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-17 : 2007	Hand-held motor-operated electric tools - Safety - Part 2-17 : Particular requirements for routers and trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 60745-2-20 : 2014	Hand-held motor-operated electric tools - Safety - Part 2-20 : Particular requirements for band saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-1 : 2014	Safety of transportable motor-operated electric tools - Part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-1 : 2007	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-2 : 2003	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for radial arm saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KS C IEC 61029-2-3 : 2007	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for planers and thicknessers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-4 : 2003	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for bench grinders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-5 : 2003	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for band saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-6 : 2003	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond drills with water supply	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-7 : 2003	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond saws with water supply	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-8 : 2007	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for single spindle vertical moulders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KS C IEC 61029-2-9 : 2003	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond saws with water supply	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-10 : 2007	Safety of transportable motor-operated electric tools - Part 2-10 : Particular requirements for cutting-off grinders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 61029-2-11 : 2007	Safety of transportable motor-operated electric tools - Part 2-11 : Particular requirements for mitre-bench saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C IEC 62040-1-1 : 2003	Uninterruptible power systems (UPS) - Part1-1 : General and safety requirements for UPS used in operator access areas	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 62040-1-2 : 2003	Uninterruptible power systems (UPS) - Part1-2 : General and safety requirements for UPS used in restricted access locations	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 62040-3 : 2014	Uninterruptible power systems (UPS) - Part 3 : Method of specifying the performance and test requirements	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C 4310 : 2003	Uninterruptible power systems	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-1 : 2002	Safety of power transformers, power supplies, reactors and similar products - Part 1 : General requirements and tests	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-1 : 2002	Safety of power transformers, power supplies, reactors and similar products -	AC (0 ~ 1 000) V, (0 ~ 500) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
	Part 2-1 : Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	(-50 ~ 300) °C
KS C IEC 61558-2-2 : 2002	Safety of power transformers, power supplies, reactors and similar products - Part 2-2 : Particular requirements and tests for control transformers and power supplies incorporating control transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-3 : 2002	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3 : Particular requirements and tests for ignition transformers for gas and oil burners	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-4 : 2015	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4 : Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-5 : 2002	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-5 : Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-6 : 2002	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6 : Particular requirements and tests for safety isolating transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
	and power supply units incorporating safety isolating transformers	
KS C IEC 61558-2-7 : 2002	Safety of power transformers, power supplies, reactors and similar products - Part 2-7 : Particular requirements and tests for transformers and power supplies for toys	AC (0 ~ 1 000) V, (0 ~ 500) A (-50 ~ 300) °C
KS C IEC 61558-2-8 : 2002	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8 : Particular requirements and tests for transformers and power supply units for bells and chimes	AC (0 ~ 1 000) V, (0 ~ 500) A (-50 ~ 300) °C
KS C IEC 61558-2-13 : 2002	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-13 : Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-15 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-15 : Particular requirements and tests for isolating transformers for the supply of medical locations	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-17 : 2002	Safety of power transformers, power supply units and similar Part 2 : Particular requirements for transformers for switch mode power supplies	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C IEC 61558-2-19 : 2002	Safety of power transformers, power supply units and similar. Particular requirements for perturbation attenuation transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KS C IEC 61558-2-20 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20 : Particular requirements and tests for small reactors	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-1 : 2009	Safety of power transformers, power supplies, reactors and similar products - part 1 : General requirements and tests	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-1 : 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-1 : Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-2 : 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-2 : Particular requirements and tests for control transformers and power supplies incorporating control transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-3 : 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3 : Particular requirements and tests for ignition transformers for gas and oil burners	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-4 : 2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4 : Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
IEC 61558-2-5 : 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-5 : Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-6 : 2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6 : Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-7 : 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-7 : Particular requirements and tests for transformers and power supplies for toys	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-8 : 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8 : Particular requirements and tests for transformers and power supply units for bells and chimes	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-13 : 2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-13 : Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 61558-2-15 : 2011	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-15 : Particular requirements and tests for isolating transformers for the supply of medical locations	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
IEC 61558-2-20 : 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20 : Particular requirements and tests for small reactors	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-1 : 2015	Safety of power transformers, power supplies, reactors and similar products - part 1 : General requirements and tests	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-1 : 2015	Safety of power transformers, power supplies, reactors and similar products - Part 2-1 : Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-2 : 2015	Safety of power transformers, power supplies, reactors and similar products - Part 2-2 : Particular requirements and tests for control transformers and power supplies incorporating control transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-3 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3 : Particular requirements and tests for ignition transformers for gas and oil burners	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-4 : 2015	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4 : Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KC 61558-2-5 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-5 : Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-6 : 2015	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6 : Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-7 : 2015	Safety of power transformers, power supplies, reactors and similar products - Part 2-7 : Particular requirements and tests for transformers and power supplies for toys	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-8 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8 : Particular requirements and tests for transformers and power supply units for bells and chimes	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-13 : 2015	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-13 : Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-15 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-15 : Particular requirements and tests for isolating transformers for the supply of medical locations	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-17 : 2015	Safety of power transformers, power supply units and similar Part 2 : Particular requirements for transformers for switch mode power supplies	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
KC 61558-2-19 : 2015	Safety of power transformers, power supply units and similar. Particular requirements for perturbation attenuation transformers	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61558-2-20 : 2015	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20 : Particular requirements and tests for small reactors	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C 9102 : 2002	Portable electric planers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C 9103 : 2002	Portable electric circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C 9615 : 2002	Hand-held electric drills	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
KS C 9619 : 2009	Small single phase transformer for household purpose	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KS C 9627 : 2002	Hand-held electric grinders	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 62040-1-1 : 2002	Uninterruptible power systems (UPS) – Part1-1 : General and safety requirements for UPS used in operator access areas	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 62040-1-2 : 2002	Uninterruptible power systems (UPS) – Part1-2 : General and safety requirements for UPS used in restricted access locations	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
IEC 62040-3 : 2011	Uninterruptible power systems (UPS) - Part 3 : Method of specifying the performance and test requirements	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 62040-1 Ed.1.1b : 2013	Uninterruptible power systems (UPS) - Part 1 : General and safety requirements for UPS	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
IEC 60745-1 : 2006	Hand-held motor-operated electric tools-Safety- Part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-1 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-2 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-3 : 2012	Hand-held motor-operated electric tools - Safety - Part 2-3 : Particular requirements for grinders, polishers and disk-type sanders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-4 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-4 : Particular requirements for sanders and polishers other than disk type	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-5 : 2010	Hand-held motor-operated electric tools - Safety - Part 2-5 : Particular requirements for circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
		Torque(Max) 100 N m Speed(Max) 15 000 min ⁻¹
IEC 60745-2-6 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-6 : Particular requirements for hammers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-7 : 1989	Safety of hand-held motor-operated electric tools. Part 2 : Particular requirements for spray guns for non-flammable liquids	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-8 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-8 : Particular requirements for shears and nibblers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-9 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-9 : Particular requirements for tappers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-11 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-11 : Particular requirements for reciprocating saws (jig and sabre saws)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-12 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-12 : Particular	AC (0 ~ 600) V, (0 ~ 50) A

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
	requirements for concrete vibrators	(-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-13 : 2011	Hand-held motor-operated electric tools - Safety - Part 2-13 : Particular requirements for chain saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-14 : 2010	Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-15 : 2009	Hand-held motor-operated electric tools - Safety - Part 2-15 : Particular requirements for hedge trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-16 : 2008	Hand-held motor-operated electric tools - Safety - Part 2-16 : Particular requirements for tackers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 60745-2-17 : 2010	Hand-held motor-operated electric tools - Safety - Part 2-17 : Particular requirements for routers and trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-1 : 1990	Safety of transportable motor-operated electric tools - Part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
		Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-1 : 2001	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for circular saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-2 : 1993	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for radial arm saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-3 : 2001	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for planers and thicknessers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-4 : 2001	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for bench grinders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-5 : 2001	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for band saws	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-6 : 1993	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond drills with	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C,

Korea Laboratory Accreditation Scheme

No. KT011

03.006 Industrial electric appliances

Test Method	Standard designation	Test range
	water supply	Torque(Max) 100 N m Speed(Max) 15 000 min ⁻¹
IEC 61029-2-7 : 1993	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond saws with water supply	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-8 : 2001	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for single spindle vertical moulders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-9 : 1995	Safety of transportable motor-operated electric tools - Part 2 : Particular requirements for diamond saws with water supply	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹
IEC 61029-2-10 : 1998	Safety of transportable motor-operated electric tools - Part 2-10 : Particular requirements for cutting-off grinders	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C, Torque(Max) 100 N m, Speed(Max) 15 000 min ⁻¹

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
K 10001 : 2006	Safety for battery chargers of Digital Cellular Phone	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10002 : 2006	Household and similar electrical appliance - Safety part 10002 : Particular requirements for half baths and similar equipment	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10003 : 2006	Household and similar electrical appliance - Safety part 10003 : Particular requirements for foot baths and similar equipment	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10004 : 2008	Household and similar electrical appliance - Safety part 10004 : Particular requirements for electrical beds and similar equipment	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10007 : 2008	Household and similar electrical appliance - Safety part 10007 : Particular requirements for water Purifier	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10008 : 2011	Household and similar electrical appliance - Safety part 10008 : Particular requirements for water ionizer	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10009 : 2008	Household and similar electrical appliance - Safety part 10009 : Particular requirements for supersonic washers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10010 : 2008	Household and similar electrical appliance - Safety part 10010 : Particular requirements for sprout and bean sprout growing devices	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
K 10011 : 2011	Household and similar electrical appliance - Safety part 10011 : Particular requirements for electrical door lock	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10012 : 2013	Household and similar electrical appliance - Safety part 10012 : Particular requirements for health appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10013 : 2008	Household and similar electrical appliance - Safety part 10013 : Particular requirements for anti-freezing appliances of a waterworks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10014 : 2008	Household and similar electrical appliance - Safety part 10014 : Particular requirements for Three phase squirrel cage , Single phase induction motors and similar rotating appliances for general purpose	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10015 : 2008	Household and similar electrical appliance - Safety part 10015 : Particular requirements for Towel horse equipment	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10016 : 2008	Household and similar electrical appliance - Safety part 10016 : Particular requirements for Towel packaging equipment	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10017 : 2008	Household and similar electrical appliance - Safety part 10017 : Particular requirements for Pet bath appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 10018 : 2015	Household and similar electrical appliance - Safety part 10018 : Particular requirements for electrical warm-water mattress and bed	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10019 : 2009	Household and similar electrical appliance - Safety part 10019 : Particular requirements for the electrical boiler of electrical warm-water mattress and bed	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 10020 : 2010	Household and similar electrical appliance - Safety part 10020 : Particular requirements for Electric honey rider	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-1 : 2016	Household and similar electrical appliance - Safety part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-2 : 2015	Household and similar electrical appliance - Safety part 2-2 : particular requirements for vacuum cleaners and water-section cleaning appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-3 : 2015	Household and similar electrical appliance - Safety part 2-3 : particular requirements for electric irons	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-4 : 2015	Household and similar electrical appliance - Safety part 2-4 : particular requirements for spin extractors	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-5 : 2015	Household and similar electrical appliance - Safety part 2-5 : particular requirements for dishwashers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-6 : 2015	Household and similar electrical appliance - Safety part 2-6 : particular	AC (0 ~ 600) V, (0 ~ 50) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	requirements for stationary cooking ranges, hobs, ovens and similar appliance	(-50 ~ 300) °C
KC 60335-2-7 : 2015	Household and similar electrical appliance - Safety part 2-7 : particular requirements for washing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-8 : 2015	Household and similar electrical appliance - Safety part 2-8 : particular requirements for shavers, hair clippers and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 60335-2-9(6.1) : 2013	Household and similar electrical appliance - Safety part 2-9 : particular requirements for toasters, grills and similar portable cooking appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-10 : 2015	Household and similar electrical appliance - Safety part 2-10 : particular requirements for floor treatment machines and wet scrubbing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-11 : 2015	Household and similar electrical appliance - Safety part 2-11 : particular requirements for tumble dryers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-12 : 2015	Household and similar electrical appliance - Safety part 2-12 : particular requirements for warming plates and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-13 : 2015	Household and similar electrical appliance - Safety part 2-13 : particular requirements for deep fat fryers, frying pans and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-14 : 2016	Household and similar electrical appliance - Safety part 2-14 : particular requirements for kitchen machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-15 : 2015	Household and similar electrical appliance - Safety part 2-15 : particular requirements for appliance for heating liquids	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-16 : 2015	Household and similar electrical appliance - Safety part 2-16 : particular requirements for food waste disposers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-17 : 2015	Household and similar electrical appliance - Safety part 2-17 : particular requirements for blankets, pads and similar flexible heating appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-21 : 2015	Household and similar electrical appliance - Safety part 2-21 : particular requirements for storage water heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-23 : 2015	Household and similar electrical appliance - Safety part 2-23 : particular requirements for appliances for skin or haircare	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-24 : 2015	Household and similar electrical appliance - Safety part 2-24 : particular requirements for refrigerating, ice-cream appliances and ice-makers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-25 : 2015	Household and similar electrical appliance - Safety part 2-25 : particular requirements for microwave ovens, including combination microwave ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-26 : 2015	Household and similar electrical appliance - Safety part 2-26 : particular requirements for clocks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-27 : 2015	Household and similar electrical appliance - Safety part 2-27 : particular requirements for appliances for skin	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	exposure to ultraviolet and infrared radiation	
KC 60335-2-28 : 2015	Household and similar electrical appliance - Safety part 2-28 : particular requirements for sewing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-29 : 2015	Household and similar electrical appliance - Safety part 2-29 : particular requirements for battery chargers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-30 : 2015	Household and similar electrical appliance - Safety part 2-30 : particular requirements for room heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-31 : 2015	Household and similar electrical appliance - Safety part 2-31 : particular requirements for range hoods	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-32 : 2015	Household and similar electrical appliance - Safety part 2-32 : particular requirements for massage appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-35 : 2015	Household and similar electrical appliance - Safety part 2-35 : particular requirements for instantaneous water heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-36 : 2015	Household and similar electrical appliance - Safety part 2-36 : particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-37 : 2015	Household and similar electrical appliance - Safety part 2-37 : particular requirements for commercial electric deep fat fryers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-38 : 2015	Household and similar electrical appliance - Safety part 2-38 : particular requirements for commercial electric griddles and griddle grills	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-39 : 2015	Household and similar electrical appliance - Safety part 2-39 : particular requirements for commercial electric multi-purpose cooking pans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-40 : 2015	Household and similar electrical appliance - Safety part 2-40 : particular requirements for electrical heat pumps, air conditioners and dehumidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-41 : 2015	Household and similar electrical appliance - Safety part 2-41 : particular requirements for pumps	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-42 : 2015	Household and similar electrical appliance - Safety part 2-42 : particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-43 : 2015	Household and similar electrical appliance - Safety part 2-43 : particular requirements for clothes dryers and towel rails	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-44 : 2015	Household and similar electrical appliance - Safety part 2-44 : particular requirements for ironers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-45 : 2015	Household and similar electrical appliance - Safety part 2-45 : particular requirements for portable heating tools and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-47 : 2015	Household and similar electrical appliance - Safety part 2-47 : particular requirements for commercial electric boiling pans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-48 : 2015	Household and similar electrical appliance - Safety part 2-48 : particular requirements for commercial electric grillers and toasters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-49 : 2015	Household and similar electrical appliance - Safety part 2-49 : particular requirements for commercial electric hot cupboards	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-50 : 2015	Household and similar electrical appliance - Safety part 2-50 : particular requirements for commercial electric bains-marie	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-52 : 2015	Household and similar electrical appliance - Safety part 2-52 : particular requirements for oral hygiene appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-53 : 2015	Household and similar electrical appliance - Safety part 2-53 : particular requirements for sauna heating appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-54 : 2015	Household and similar electrical appliance - Safety part 2-54 : particular requirements for surface-cleaning appliance for household use employing liquids or steam	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-55 : 2015	Household and similar electrical appliance - Safety part 2-55 : particular requirements for electrical appliance for use with aquariums and garden ponds	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-56 : 2015	Household and similar electrical appliance - Safety part 2-56 : particular requirements for projectors and similar appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-58 : 2015	Household and similar electrical appliance - Safety part 2-58 : particular requirements for commercial electric dishwashing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-59 : 2015	Household and similar electrical appliance - Safety part 2-59 : particular requirements for insect killers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-60 : 2015	Household and similar electrical appliance - Safety part 2-60 : particular requirements for whirlpool baths and whirlpool spas	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-61 : 2015	Household and similar electrical appliance - Safety part 2-61 : particular requirements for thermal-storage room heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-62 : 2015	Household and similar electrical appliance - Safety part 2-62 : particular requirements for commercial electric rinsing sinks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-63 : 2014	Household and similar electrical appliance - Safety part 2-63 : particular requirements for Commercial electric water boilers and liquid heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-64 : 2015	Household and similar electrical appliance - Safety part 2-64 : particular requirements for commercial electric kitchen machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-65 : 2015	Household and similar electrical appliance - Safety part 2-65 : particular requirements for air-cleaning appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-66 : 2015	Household and similar electrical appliance - Safety part 2-66 : particular requirements for water-bed heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-68 : 2015	Household and similar electrical appliance - Safety part 2-68 : particular requirements for spray extraction appliance for industrial and commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-69 : 2015	Household and similar electrical appliance - Safety part 2-69 : particular requirements for wet and dry vacuum cleaners, including power brush for industrial and commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-70 : 2015	Household and similar electrical appliance - Safety part 2-70 : particular requirements for milking machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-72 : 2015	Household and similar electrical appliance - Safety part 2-72 : particular requirements for floor treatment for commercial and industrial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-73 : 2015	Household and similar electrical appliance - Safety part 2-73 : particular requirements for fixed immersion heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-75 : 2015	Household and similar electrical appliance - Safety part 2-75 : particular requirements for commercial dispensing appliances and vending machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-78 : 2015	Household and similar electrical appliance - Safety part 2-78 : particular requirements for outdoor barbecues	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-79 : 2015	Household and similar electrical appliance - Safety part 2-79 : particular requirements for high pressure cleaner and steam cleaners for commercial and industrial use (exclusion) 11. Heating 19. Abnormal operation 20. Stability and mechanical hazards	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-80 : 2015	Household and similar electrical appliance - Safety part 2-80 : particular requirements for fans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 60335-2-81 : 2009	Household and similar electrical appliance - Safety part 2-81 : particular requirements for foot warmers and heating mats	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-84 : 2016	Household and similar electrical appliance - Safety part 2-84 : particular requirements for toilets	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 60335-2-85(3.0) : 2007	Household and similar electrical appliance - Safety part 2-85 : particular requirements for fabric steamers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-88 : 2015	Household and similar electrical appliance - Safety part 2-88 : particular requirements for humidifiers intended for use with heating, ventilation or air-conditioning systems	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-90 : 2015	Household and similar electrical appliance - Safety part 2-90 : particular	AC (0 ~ 600) V, (0 ~ 50) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	requirements for commercial microwave ovens	(-50 ~ 300) °C
KC 60335-2-91 : 2015	Household and similar electrical appliance - Safety part 2-91 : particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 603353-2-98 : 2015	Household and similar electrical appliance - Safety part 2-98 : particular requirements for humidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-101 : 2015	Household and similar electrical appliance - Safety part 2-101 : particular requirements for vaporizers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60065 : 2015	Audio, Video and similar electronic apparatus - safety requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-34 : 2015	Household and similar electrical appliances - Safety - Part 2-34: Particular requirements for motor-compressors (Except : Annex AA test)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-67 : 2015	Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines, for commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-71 : 2015	Household and similar electrical appliances - Safety - Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KC 60335-2-74 : 2015	Household and similar electrical appliances - Safety - Part 2-74: Particular requirements for portable immersion heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-82 : 2015	Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-95 : 2015	Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 60335-2-97 : 2015	Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 61851-1 : 2015	Electric vehicle conductive charging system - Part 1: General requirements	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61851-22 : 2015	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
KC 61851-23 : 2015	Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
K 62477-1 : 2011	Safety requirements for power electronic converter systems and equipment - Part 1: General	AC (0 ~ 1 000) V, (0 ~ 500) A, (-50 ~ 300) °C
K 60950-1 : 2006	Information technology equipment -	AC (0 ~ 1 000)

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	safety - part 1 : General requirement	V, (0 ~ 50) A, (-50 ~ 300) °C
K 70000 : 2008	Household and similar electrical appliance - Safety part 70000 : particular requirements for electric disinfectors	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-1 : 2013	Household and similar electrical appliance - Safety part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-2 : 2014	Household and similar electrical appliance - Safety part 2-2 : particular requirements for vacuum cleaners and water-section cleaning appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-3 : 2013	Household and similar electrical appliance - Safety part 2-3 : particular requirements for electric irons	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-4 : 2013	Household and similar electrical appliance - Safety part 2-4 : particular requirements for spin extractors	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-5 : 2013	Household and similar electrical appliance - Safety part 2-5 : particular requirements for dishwashers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-6 : 2013	Household and similar electrical appliance - Safety part 2-6 : particular requirements for stationary cooking ranges, hobs, ovens and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-7 : 2012	Household and similar electrical appliance - Safety part 2-7 : particular requirements for washing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C IEC 60335-2-8 : 2013	Household and similar electrical appliance - Safety part 2-8 : particular requirements for shavers, hair clippers and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-9 : 2014	Household and similar electrical appliance - Safety part 2-9 : particular requirements for toasters, grills and similar portable cooking appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-10 : 2013	Household and similar electrical appliance - Safety part 2-10 : particular requirements for floor treatment machines and wet scrubbing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-11 : 2005	Household and similar electrical appliance - Safety part 2-11 : particular requirements for tumble dryers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-12 : 2013	Household and similar electrical appliance - Safety part 2-12 : particular requirements for warming plates and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-13 : 2013	Household and similar electrical appliance - Safety part 2-13 : particular requirements for deep fat fryers, frying pans and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-14 : 2013	Household and similar electrical appliance - Safety part 2-14 : particular requirements for kitchen machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-15 : 2012	Household and similar electrical appliance - Safety part 2-15 : particular requirements for appliance for heating liquids	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C IEC 60335-2-16 : 2014	Household and similar electrical appliance - Safety part 2-16 : particular requirements for food waste disposers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-17 : 2014	Household and similar electrical appliance - Safety part 2-17 : particular requirements for blankets, pads and similar flexible heating appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-21 : 2014	Household and similar electrical appliance - Safety part 2-21 : particular requirements for storage water heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-23 : 2012	Household and similar electrical appliance - Safety part 2-23 : particular requirements for appliances for skin or haircare	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-24 : 2013	Household and similar electrical appliance - Safety part 2-24 : particular requirements for refrigerating, ice-cream appliances and ice-makers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-25 : 2012	Household and similar electrical appliance - Safety part 2-25 : particular requirements for microwave ovens, including combination microwave ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-26 : 2013	Household and similar electrical appliance - Safety part 2-26 : particular requirements for clocks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-27 : 2013	Household and similar electrical appliance - Safety part 2-27 : particular requirements for appliances for skin	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	exposure to ultraviolet and infrared radiation	
KS C IEC 60335-2-28 : 2013	Household and similar electrical appliance - Safety part 2-28 : particular requirements for sewing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-29 : 2013	Household and similar electrical appliance - Safety part 2-29 : particular requirements for battery chargers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-30 : 2013	Household and similar electrical appliance - Safety part 2-30 : particular requirements for room heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-31 : 2014	Household and similar electrical appliance - Safety part 2-31 : particular requirements for range hoods	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-32 : 2013	Household and similar electrical appliance - Safety part 2-32 : particular requirements for massage appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-35 : 2014	Household and similar electrical appliance - Safety part 2-35 : particular requirements for instantaneous water heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-39 : 2014	Household and similar electrical appliance - Safety part 2-39 : particular requirements for commercial electric multi-purpose cooking pans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-40 : 2007	Household and similar electrical appliance - Safety part 2-40 : particular requirements for electrical heat pumps, air conditioners and dehumidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C IEC 60335-2-41 : 2014	Household and similar electrical appliance - Safety part 2-41 : particular requirements for pumps for liquids having a temperature not exceeding 35°C	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-42 : 2013	Household and similar electrical appliance - Safety part 2-42 : particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-43 : 2013	Household and similar electrical appliance - Safety part 2-43 : particular requirements for clothes dryers and towel rails	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-44 : 2014	Household and similar electrical appliance - Safety part 2-44 : particular requirements for ironers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-45 : 2013	Household and similar electrical appliance - Safety part 2-45 : particular requirements for portable heating tools and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-47 : 2013	Household and similar electrical appliance - Safety part 2-47 : particular requirements for commercial electric boiling pans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-48 : 2013	Household and similar electrical appliance - Safety part 2-48 : particular requirements for commercial electric grillers and toasters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C IEC 60335-2-49 : 2013	Household and similar electrical appliance - Safety part 2-49 : particular requirements for commercial electric hot cupboards	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-50 : 2013	Household and similar electrical appliance - Safety part 2-50 : particular requirements for commercial electric bains-marie	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-52 : 2013	Household and similar electrical appliance - Safety part 2-52 : particular requirements for oral hygiene appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-53 : 2004	Household and similar electrical appliance - Safety part 2-53 : particular requirements for sauna heating appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-54 : 2013	Household and similar electrical appliance - Safety part 2-54 : particular requirements for surface-cleaning appliance for household use employing liquids or steam	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-55 : 2013	Household and similar electrical appliance - Safety part 2-55 : particular requirements for electrical appliance for use with aquariums and garden ponds	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-56 : 2013	Household and similar electrical appliance - Safety part 2-56 : particular requirements for projectors and similar appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-58 : 2013	Household and similar electrical appliance - Safety part 2-58 : particular requirements for commercial electric dishwashing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C IEC 60335-2-59 : 2013	Household and similar electrical appliance - Safety part 2-59 : particular requirements for insect killers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-60 : 2013	Household and similar electrical appliance - Safety part 2-60 : particular requirements for whirlpool baths and whirlpool spas	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-61 : 2013	Household and similar electrical appliance - Safety part 2-61 : particular requirements for thermal-storage room heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-62 : 2013	Household and similar electrical appliance - Safety part 2-62 : particular requirements for commercial electric rinsing sinks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-64 : 2013	Household and similar electrical appliance - Safety part 2-64 : particular requirements for commercial electric kitchen machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-65 : 2013	Household and similar electrical appliance - Safety part 2-65 : particular requirements for air-cleaning appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-66 : 2014	Household and similar electrical appliance - Safety part 2-66 : particular requirements for water-bed heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-67 : 2007	Household and similar electrical appliance - Safety part 2-67 : particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-68 : 2007	Household and similar electrical appliance - Safety part 2-68 : particular requirements for spray extraction	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	appliance for industrial and commercial use	
KS C IEC 60335-2-69 : 2007	Household and similar electrical appliance - Safety part 2-69 : particular requirements for wet and dry vacuum cleaners, including power brush for industrial and commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-70 : 2013	Household and similar electrical appliance - Safety part 2-70 : particular requirements for milking machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-72 : 2007	Household and similar electrical appliance - Safety part 2-72 : particular requirements for floor treatment for commercial and industrial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-73 : 2013	Household and similar electrical appliance - Safety part 2-73 : particular requirements for fixed immersion heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-75 : 2014	Household and similar electrical appliance - Safety part 2-75 : particular requirements for commercial dispensing appliances and vending machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-78 : 2013	Household and similar electrical appliance - Safety part 2-78 : particular requirements for outdoor barbecues	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-79 : 2007	Household and similar electrical appliance - Safety part 2-79 : particular requirements for high pressure cleaner	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	and steam cleaners for commercial and industrial use (exclusion) 11. Heating 19. Abnormal operation 20. Stability and mechanical hazards	
KS C IEC 60335-2-80 : 2012	Household and similar electrical appliance - Safety part 2-80 : particular requirements for fans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-81 : 2002	Household and similar electrical appliance - Safety part 2-81 : particular requirements for foot warmers and heating mats	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-84 : 2013	Household and similar electrical appliance - Safety part 2-84 : particular requirements for toilets	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-85 : 2013	Household and similar electrical appliance - Safety part 2-85 : particular requirements for fabric steamers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-88 : 2014	Household and similar electrical appliance - Safety part 2-88 : particular requirements for humidifiers intended for use with heating, ventilation or air-conditioning systems	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-90 : 2013	Household and similar electrical appliance - Safety part 2-90 : particular requirements for commercial microwave ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-91 : 2013	Household and similar electrical appliance - Safety part 2-91 : particular	AC (0 ~ 600) V, (0 ~ 50) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers	(-50 ~ 300) °C
KS C IEC 60335-2-98 : 2013	Household and similar electrical appliance - Safety part 2-98 : particular requirements for humidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-101 : 2014	Household and similar electrical appliance - Safety part 2-101 : particular requirements for vaporizers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60065 : 2013	Audio, Video and similar electronic apparatus - safety requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60950-1 : 2014	Information technology equipment - safety - part 1 : General requirement	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 62552 : 2010	Household refrigerating appliances – Characteristics and test methods	(0 ~ 600) V, (0 ~ 50)A, (-30 ~ 400)°C
KS C 9101 : 2014	Electric vacuum cleaners 11.2.1 Intake work rate(exclusion)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9206 : 2013	Electric toasters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9209 : 2013	Hair curling appliances and hand-hold hair dryers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9220 : 2013	Electric heated resin sheet and heated over-blankets and under-blankets	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9301 : 2013	Electric fans and ceiling fans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C 9304 : 2002	Ventilating fans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9306 : 2011	Airconditioner	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9309 : 2013	Electric pots and water heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9310 : 2013	Electric rice-cookers and rice jars with electric thermal control	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9313 : 2013	Electronic ranges 11.2.3 High frequency output(exclusion) 11.2.4 Oscillating frequency(exclusion) 11.2.6 Electric intensity radiatio wave(exclusion)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9314 : 2013	Air-cleaners 11.2.3 Dust collection rate(exclusion) 11.2.4 Dust paper preservation capacity(exclusion) 11.2.5 Gas eliminating rate(exclusion) 11.2.6 Gas eliminating capacity(exclusion)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9315 : 2013	Drinking-water coolers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9317 : 2013	Dehumidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
KS C 9319 : 2013	Tumbler type electric clothe dryers 6.11 Dehumidifying rate(exclusion)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9321 : 2014	Household electric refrigerating appliances for KIM-CHI	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9608 : 2013	Electric washing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C 9803 : 2007	Electric storage tank water heaters 11.2.10 Water quality(exclusion)	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 62087 : 2006	Methods of measurement for the power consumption of audio, video and related equipment	AC (0 ~ 1 000) V, (0 ~ 50) A
KS C IEC 62018 : 2006	Power consumption of information technology equipment - Measurement methods	AC (0 ~ 1 000) V, (0 ~ 50) A
KS C IEC 62301 : 2006	Household electrical appliances - Measurement of standby power	AC (0 ~ 1 000) V, (0 ~ 50) A
KC 60335-2-89 : 2015	Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor (Exception) 22.106 Flammable refrigerants of leakage test, 22.107 Unprotected cooling systems and which use flammable refrigerants, 22.108 Fire or explosion hazard test of Compression-type appliances which use flammable refrigerants, 22.109 Temperatures on surfaces that may be	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	exposed to leakage of flammable refrigerants	
KC 60335-2-102 : 2015	Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KC 10027 : 2015	Safety of household and similar electrical appliances - Particular requirements for heating boards	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-89 : 2014	Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor (Exception) 22.106 Flammable refrigerants of leakage test, 22.107 Unprotected cooling systems and which use flammable refrigerants, 22.108 Fire or explosion hazard test of Compression-type appliances which use flammable refrigerants, 22.109 Temperatures on surfaces that may be exposed to leakage of flammable refrigerants	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
KS C IEC 60335-2-102 : 2014	Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
K 60107-1 : 2002	Methods of measurement on receivers for television broadcast transmissions - Part 1 : General considerations - Measurements at radio and video frequencies	20 Hz ~ 100 kHz, 0.3 % 0.6 mV ~ 6 V, 0.01 % (15 μV) RF : 49 dB ± 2 dB IF : 16 dB ± 1 dB
K 60107-2 : 2002	Methods of measurement on receivers for television broadcast transmissions -	20 Hz ~ 100 kHz, 0.3 % 0.6 mV ~ 6 V,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	Part 2 : Audio channel - General methods and methods for monophonic channels	0.01 % (15 μ V), RF : 49 dB \pm 2 dB IF : 16 dB \pm 1 dB
K 60950-1 : 2011	Information technology equipment - safety - part 1 : General requirement	AC (0 ~ 1 000) V, (0 ~ 50) A (-50 ~ 300) $^{\circ}$ C
IEC 60107-1 ed.3.0 : 1997	Methods of measurement on receivers for television broadcast transmissions - Part 1 : Audio channels-General considerations-Measurements at radio and video frequencies	20 Hz ~ 100 kHz, 0.3 % 0.6 mV ~ 6 V, 0.01 % (15 μ V) RF : 49 dB \pm 2 dB IF : 16 dB \pm 1 dB
IEC 60107-2 ed.2.0 : 1997	Methods of measurement on receivers for television broadcast transmissions - Part 2 : Audio channels-General methods and methods for monophonic channels	20 Hz ~ 100 kHz, 0.3 % 0.6 mV ~ 6 V, 0.01 % (15 μ V) RF : 49 dB \pm 2 dB IF : 16 dB \pm 1 dB
IEC 60335-2-89 ed2.2 : 2015	Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor (Exception) 22.106 Flammable refrigerants of leakage test, 22.107 Unprotected cooling systems and which use flammable refrigerants, 22.108 Fire or explosion hazard test of Compression-type appliances which use flammable refrigerants, 22.109 Temperatures on surfaces that may be exposed to leakage of flammable refrigerants	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) $^{\circ}$ C
IEC 60335-2-102 ed.1.2 : 2012	Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and	AC (0 ~ 600) V, (0 ~ 50) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	solid-fuel burning appliances having electrical connections	(-50 ~ 300) °C
CSA C380-08 : 2008	Test procedure for the measurement of energy consumption of set-top boxes(STBs)	RF : 49 dB ± 2 dB IF : 16 dB ± 1 dB AC (0 ~ 1 000) V, (0 ~ 50) A
ABNT NBR IEC 60065:2009	ABNT NBR IEC 60065: 2009 - audio devices, video and similar electronic apparatus - Safety requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
ANSI/SCTE 55-1 : 2009	Digital Broadband Delivery System : Out of Band Transport Part 1 : Mode A	-
ANSI/SCTE 55-2 : 2002	Digital Broadband Delivery System : Out of Band Transport Part 2 : Mode B	-
CEA-2037 : 2009	Determination of Television Average Power Consumption	-
VESA FPDM 2.0 : 2005	Flat panel Display Measurements Standard Version 2.0	-
VESA Video Signal Standard(VSIS) : 2002	Video Signal Standard	-
BS EN 50301 : 2001	Methods of measurement for the power consumption of audio, video and related equipment	AC (0 ~ 1 000) V, (0 ~ 50) A
BS EN 62087 : 2003	Methods of measurement for the power consumption of audio, video and related equipment	AC (0 ~ 1 000) V, (0 ~ 50) A
IEEE 1394 : 1995	IEEE Standard for a High Performance Serial Bus	-
IEEE 1394a : 2000	IEEE Standard for a High Performance Serial Bus-Amendment 1	-
IEEE 1394b : 2000	IEEE Standard for a High Performance Serial Bus-Amendment 2	-

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEEE 1621 : 2004	IEEE Standard for User Interface Elements in Power Control of Electronic Devices Employed in Office/Consumer Environments	-
IEC 60335-1 ed5.0 : 2010	Household and similar electrical appliances - Safety part 1 : General requirements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-2 ed6.1 : 2012	Household and similar electrical appliance - Safety part 2-2 : particular requirements for vacuum cleaners and water-suction cleaning appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-3 ed6.0 : 2012	Household and similar electrical appliances - Safety part 2-3 : particular requirements for electric irons	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-4 ed6.1 : 2012	Household and similar electrical appliances - Safety part 2-4 : particular requirements for spin extractors	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-5 : 2012	Household and similar electrical appliances - Safety part 2-5 : particular requirements for dishwashers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-6 : 2008	Household and similar electrical appliance - Safety part 2-6 : particular requirements for stationary cooking ranges,hobs,ovens and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-7 ed7.0 : 2008	Household and similar electrical appliances - Safety part 2-7 : particular requirements for washing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-8 ed6.0 : 2012	Household and similar electrical appliances - Safety part 2-8 : particular requirements for shavers, hair clippers and similar appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 60335-2-9 ed6.1 : 2012	Household and similar electrical appliances - Safety part 2-9 : particular requirements for grills, toasters and similar portable cooking appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-10 : 2008	Household and similar electrical appliance - Safety part 2-10 : particular requirements for floor treatment machines and wet scrubbing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-11 ed7.1 : 2012	Household and similar electrical appliances - Safety part 2-11 : particular requirements for tumble dryers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-12 : 2008	Household and similar electrical appliance - Safety part 2-12 : particular requirements for warming plates and similar appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-13 ed6.0 : 2009	Household and similar electrical appliances - Safety part 2-13 : particular requirements for deep fat fryers, frying pans and similar appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-14 ed5.2 : 2012	Household and similar electrical appliances - Safety part 2-14 : particular requirements for kitchen machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-15 ed6.0 : 2012	Household and similar electrical appliances - Safety part 2-15 : particular requirements for appliances for heating liquids	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-16 ed5.2 : 2012	Household and similar electrical appliances - Safety part 2-16 : particular requirements for food waste disposers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-17 ed3.0 : 2012	Household and similar electrical appliances - Safety part 2-17 : particular requirements for blankets, pads clothing and similar flexible heating appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-21	Household and similar electrical	AC (0 ~ 600)

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
ed6.0 : 2012	appliances - Safety part 2-21 : particular requirements for storage water heaters	V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-23 ed5.2 : 2012	Household and similar electrical appliances - Safety part 2-23 : particular requirements for appliances for skin or hair care	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-24 ed7.1 : 2012	Household and similar electrical appliances - Safety part 2-24 : particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-25 ed6.0 : 2010	Household and similar electrical appliances - Safety part 2-25 : particular requirements for microwave ovens, including combination microwave ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-26 : 2008	Household and similar electrical appliance - Safety part 2-26 : particular requirements for clocks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-27 ed5.1 : 2012	Household and similar electrical appliances - Safety part 2-27 : particular requirements for appliances for skin exposure to ultraviolet and infrared radiation	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-28 : 2008	Household and similar electrical appliance - Safety part 2-28 : particular requirements for sewing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-29 ed4.2 : 2010	Household and similar electrical appliances - Safety part 2-29 : particular	AC (0 ~ 600) V, (0 ~ 50) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	requirements for battery chargers	(-50 ~ 300) °C
IEC 60335-2-30 ed5.0 : 2009	Household and similar electrical appliances - Safety part 2-30 : particular requirements for room heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-31 ed5.0 : 2012	Household and similar electrical appliances - Safety part 2-31 : particular requirements for range hoods and other cooking fume extractors	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-32 : 2008	Household and similar electrical appliance - Safety part 2-32 : particular requirements for massage appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-35 ed5.0 : 2012	Household and similar electrical appliances - Safety part 2-35 : particular requirements for instantaneous water heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-36 ed5.2 : 2008	Household and similar electrical appliances - Safety part 2-36 : particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-37 ed5.2 : 2011	Household and similar electrical appliances - Safety part 2-37 : particular requirements for commercial electric doughnut fryers and deep fat fryers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-38 ed5.1 : 2008	Household and similar electrical appliances - Safety part 2-38 : particular requirements for commercial electric griddles and griddle grills	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 60335-2-39 ed6.0 : 2012	Household and similar electrical appliances - Safety part 2-39 : particular requirements for commercial electric multi-purpose cooking pans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-40 : 2013	Household and similar electrical appliance - Safety part 2-40 : particular requirements for electrical heat pumps, air conditioners and dehumidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-41 ed4.0 : 2012	Household and similar electrical appliances - Safety - Part 2-41 : Particular requirements for pumps	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-42 ed5.1 : 2009	Household and similar electrical appliances - Safety part 2-42 : particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-43 : 2008	Household and similar electrical appliance - Safety part 2-43 : particular requirements for clothes dryers and towel rails	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-44 ed3.2 : 2012	Household and similar electrical appliances - Safety part 2-44 : particular requirements for ironers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-45 ed3.2 : 2012	Household and similar electrical appliances - Safety part 2-45 : particular requirements for portable heating tools and similar appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-47 : 2008	Household and similar electrical appliance - Safety part 2-47 : particular requirements for commercial electric boiling pans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 60335-2-48 ed4.1 : 2008	Household and similar electrical appliances - Safety part 2-48 : particular requirements for commercial electric grillers and toasters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-49 : 2008	Household and similar electrical appliance - Safety part 2-49 : particular requirements for commercial electric hot cupboards	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-50 : 2008	Household and similar electrical appliance - Safety part 2-50 : particular requirements for commercial electric bains-marie	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-52 : 2008	Household and similar electrical appliance - Safety part 2-52 : particular requirements for oral hygiene appliances	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-53 ed4.0 : 2011	Household and similar electrical appliances - Safety part 2-53 : particular requirements for sauna heating appliances and infrared cabins	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-54 : 2008	Household and similar electrical appliance - Safety part 2-54 : particular requirements for surface-cleaning appliance for household use employing liquids or steam	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-55 : 2008	Household and similar electrical appliance - Safety part 2-55 : particular requirements for electrical appliance for use with aquariums and garden ponds	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-56 : 2008	Household and similar electrical appliance - Safety part 2-56 : particular	AC (0 ~ 600) V, (0 ~ 50) A,

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
	requirements for projectors and similar appliances	(-50 ~ 300) °C
IEC 60335-2-58 ed3.1 : 2008	Household and similar electrical appliances - Safety part 2-58 : particular requirements for commercial electric dishwashing machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-59 ed3.2 : 2009	Household and similar electrical appliances - Safety part 2-59 : particular requirements for insect killers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-60 : 2008	Household and similar electrical appliance - Safety part 2-60 : particular requirements for whirlpool baths and whirlpool spas	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-61 ed2.2 : 2009	Household and similar electrical appliances - Safety part 2-61 : particular requirements for thermal-storage room heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-62 ed3.1 : 2008	Household and similar electrical appliances - Safety part 2-62 : particular requirements for commercial electric rinsing sinks	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-64 : 2008	Household and similar electrical appliance - Safety part 2-64 : particular requirements for commercial electric kitchen machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-65 : 2008	Household and similar electrical appliance - Safety part 2-65 : particular requirements for air-cleaning appliance	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-66 ed2.2 : 2012	Household and similar electrical appliances - Safety part 2-66 : particular requirements for water-bed heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 60335-2-67 ed4.0 : 2012	Household and similar electrical appliances - Safety - Part 2-67 : Particular requirements for floor treatment machines, for commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-68 ed4.0 : 2012	Household and similar electrical appliances - Safety part 2-68 : particular requirements for spray extraction machines, for commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-69 ed4.0 : 2012	Household and similar electrical appliances - Safety part 2-69 : particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-70 ed2.2 : 2013	Household and similar electrical appliances - Safety part 2-70 : particular requirements for milking machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-72 ed3.0 : 2012	Household and similar electrical appliances - Safety part 2-72 : particular requirements for floor treatment machines with or without traction drive, for commercial use	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-73 ed2.2 : 2009	Household and similar electrical appliances - Safety part 2-73 : particular requirements for fixed immersion heaters	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-75 ed3.0 : 2012	Household and similar electrical appliances - Safety part 2-75 : particular requirements for commercial dispensing appliances and vending machines	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-78 : 2008	Household and similar electrical appliance - Safety part 2-78 : particular requirements for outdoor barbecues	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 60335-2-79 ed3.0 : 2012	Household and similar electrical appliances - Safety - Part 2-79 : Particular requirements for high pressure cleaners and steam cleaners (exclusion) 11. Heating 19. Abnormal operation 20. Stability and mechanical hazards	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-80 : 2008	Household and similar electrical appliance - Safety part 2-80 : particular requirements for fans	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-81 ed2.2 : 2012	Household and similar electrical appliances - Safety part 2-81 : particular requirements for foot warmers and heating mats	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-84 : 2008	Household and similar electrical appliance - Safety part 2-84 : particular requirements for toilets	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-85 : 2008	Household and similar electrical appliance - Safety part 2-85 : particular requirements for fabric steamers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-88 ed2.0 : 2002	Household and similar electrical appliances - Safety part 2-88 : particular requirements for humidifiers intended for use with heating, ventilation or air-conditioning systems	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-90 ed3.1 : 2010	Household and similar electrical appliances - Safety part 2-90 : particular requirements for commercial microwave ovens	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 60335-2-91 ed3.0 : 2008	Household and similar electrical appliances - Safety part 2-91 : particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-98 : 2008	Household and similar electrical appliance - Safety part 2-98 : particular requirements for humidifiers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60335-2-101 : 2008	Household and similar electrical appliance - Safety part 2-101 : particular requirements for vaporizers	AC (0 ~ 600) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60065 Ed. 7.2b : 2011	Audio, video and similar electronic apparatus - Safety requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
EN 60065 : 2002	Audio, Video and similar electronic apparatus - safety requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
EN 60065 : 2002 + A12 : 2011	Audio, Video and similar electronic apparatus - safety requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60950-1 : 2001	Information technology equipment - safety - part 1 : General requirement	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
IEC 60950-1 Ed. 2.2b : 2013	Information technology equipment - Safety - Part 1 : General requirements	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C
EN 60950-1 : 2006 + A2 : 2013	Information technology equipment - safety - General requirement	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.007 Household electric appliance

Test Method	Standard designation	Test range
IEC 62301 ed2.0b : 2011	Household electrical appliances-Measurement of standby power	AC (0 ~ 1 000) V, (0 ~ 50) A
IEC 62087-BD ed3.0b : 2011	Methods of measurement for the power consumption of audio, video and related equipment	AC (0 ~ 1 000) V, (0 ~ 50) A
Portaria INMETRO / MDIC número 577- de 18/11/2015	Regulamento Técnico da Qualidade para Refrigeradores e Assemelhados	(0 ~ 600) V (0 ~ 40) A (-40 ~ 150) °C
IEC 62552 : 2007	Household refrigerating appliances - Characteristics and test methods	(0 ~ 600) V (0 ~ 40) A (-40 ~ 150) °C
Portaria INMETRO / MDIC número 427- de 10/09/2014	REGULAMENTO TÉCNICO DA QUALIDADE PARA TELEVISORES 5.2 REQUISITOS DE SEGURANÇCA	AC (0 ~ 1 000) V, (0 ~ 50) A, (-50 ~ 300) °C

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C IEC 60061-1 : 2005	Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1 : Lamp caps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60061-2 : 2005	Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2 : Lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60061-3 : 2005	Lamp caps and holders together with gauges for the control of interchangeability and safty – Part 3 : Gauges	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C IEC 60061-4 : 2014	Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4 : Guidelines and general information	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60064 : 2003	Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation-resistance : more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 60155 : 2002	Glow starters for fluorescent lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation-resistance : more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 60357 : 2003	Tungsten halogen lamps(non – vehicle) – Performance specification	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation-resistance : more than 4 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 60838-1 : 2014	Miscellaneous lampholders – Part 1 : General requirements and tests	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60838-2-1 : 2003	Miscellaneous lampholders – Part 2 : Particular requirements – Section 1 : Lampholders S14	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60921 : 2008	Ballasts for tubular fluorescent lamps – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 60923 : 2008	Auxiliaries for lamps – Ballasts for discharge lamps(excluding tubular fluorescent lamps) – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) %

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 60927 : 2008	Auxiliaries for lamps— Starting devices(other than glow starters)— Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61050 : 2002	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V(generally called neon-transformers)— General and safety requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61184 : 2014	Bayonet lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 61347-2-10 : 2014	Lamp controlgear—Part 2—10 : Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61347-2-13 : 2011	Lamp controlgear – Part 2 – 13 : Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	CVCF : 3 kVA Power analyzer - Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 62035 : 2002	Discharge lamps(excluding fluorescent lamps) – Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
K 10005 : 2011	Fluorescent Induction Lamps-Safety Requirements	<p>CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.</p>
K 10021 : 2010	Tublar LED lamps of Luminaires - Safety requirements	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)</p>
KC 20001 : 2015	Tublar LED lamps using external converter - Safety and Performance Requirements	<p>CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
K 20002 : 2010	Tublar LED lamps using (external) convertor lampholder	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C On/Off : (0 ~ 50 000)
Korean Agency for Technology and Standard Notice No. 2006-958 K 10006 : 2006	Safety requiriements for induction lamps of PLS type	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 61199 : 2015	Single-capped fluorescent lamps – Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KC 61347-2-2 : 2015	Lamp controlgear – Part 2 – 2 : Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
K 61347-2-12 : 2009	Lamp controlgear — Part 2 — 12 : Particular requirements for d.c. or a.c. supplied electronic ballasts	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 62035 : 2015	Discharge lamps(excluding fluorescent lamps)— Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C 7528 : 2004	LED traffic signals	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 8100 : 2014	AC supplied electronic ballast for fluorescent lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 $^{\circ}\text{C}$ Lighting characteristic : Constant temperature (-30 ~ 70) $^{\circ}\text{C}$ On/Off : (0 ~ 50 000)
KS C 8103 : 2007	Table study lamps for fluorescent lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 $^{\circ}\text{C}$ Lighting characteristic : Constant temperature (-30 ~ 70) $^{\circ}\text{C}$ Thermal shock test : (-10 ~ 70) $^{\circ}\text{C}$
KS C 8104 : 2005	Ballasts for high pressure mercury vapour lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 60598-1 : 2011	Luminaires—Part 1 : General requirements and tests	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 61347-1 : 2008	Lamp controlgear—Part 1 : General and safety requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
<p style="text-align: center;">KS C IEC 61347-2-3 : 2014</p>	<p>Lamp controlgear – Part 2 – 3 : Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps</p>	<ul style="list-style-type: none"> CVCF : 3 kVA Power analyzer - Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KC 60064 : 2015	Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements	CVCF : 3 kVA Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KC 60155 : 2015	Glow starters for fluorescent lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KC 60188 : 2015	High-Pressure mercury vapour lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KC 60192 : 2015	Low – pressure sodium vapour lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KC 60432-1 : 2015	Incandescent lamps – Safety specifications – Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
K 60838-1 : 2011	Miscellaneous lampholders – Part 1 : General requirements and tests	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60838-2-1 : 2015	Miscellaneous lampholders – Part 2 : Particular requirements – Section 1 : Lampholders S14	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60923 : 2015	Auxiliaries for lamps – Ballasts for discharge lamps(excluding tubular fluorescent lamps) – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C
KC 60927 : 2015	Auxiliaries for lamps – Starting devices(other than glow starters) – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 60929 : 2015	A.C supplied electronic ballasts for tubular fluorescent lamps – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 60968 : 2015	Self-ballasted lamps for general lighting services – Safety requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N-m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N-m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KC 60969 : 2015	Self-ballasted lamps for general lighting services – Performance requirements	<p>CVCF : 3 kVA Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements :</p> <ul style="list-style-type: none"> - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K On/Off : (0 ~ 50 000)
K 61047 : 2008	D.C or a.c supplied electronic step-down convertors for filament Lamps – Performance requirements	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)</p>
KC 61050 : 2015	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V(generally called neon-transformers) – General	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
	and safety requirements	Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
K 61184 : 2008	Bayonet lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 61347-1 : 2015	Lamp controlgear - Part 1 : General and safety requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
K 61347-2-10 : 2009	Lamp controlgear - Part 2-10 : Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
<p>KC 61347-2-3 : 2015</p>	<p>Lamp control gear - Part 2-3 : Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps</p>	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)</p>
<p>KC 61347-2-8 : 2015</p>	<p>Lamp controlgear - Part 2-8 : Particular requirements for ballasts for fluorescent lamps</p>	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 61347-2-9 : 2015	Lamp controlgear - Part 2-9 : Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 61347-2-1 : 2015	Lamp controlgear - Part 2-1 : Particular requirements for starting devices (other than glow starters)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 60061-1 : 2015	Lamp caps and holders together with gauges for the control of interchangeability and safety—Part 1 : Lamp caps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60061-2 : 2015	Lamp caps and holders together with gauges for the control of interchangeability and safety—Part 2 : Lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60061-4 : 2015	Lamp caps and holders together with gauges for the control of interchangeability and safety—Part 4 : Guidelines and general information	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60238 : 2015	Edison screw lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KC 60357 : 2015	Tungsten halogen lamps(non – vehicle) – Performance specification	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KC 60598-1 : 2015	Luminaires – Part 1 : General requirements and tests	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-1 : 2015	Luminaires. Part 2: Particular requirements. Section 1: Fixed general purpose luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-5 : 2015	Luminaires—Part 2 : Particular requirements—Section 5 : Floodlights	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-17 : 2015	Luminaires—Part 2—17 : Particular requirements—Luminaires for stage lighting, television, film and photographic studios(outdoor and indoor)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-18 : 2015	Luminaires – Part 2 – 18 : Particular requirements – Luminaires for swimming pools and similar applications	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-19 : 2015	Luminaires – Part 2 – 19 : Particular requirements – Air – handling luminaires(safety requirements)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-2 : 2015	Luminaires – Part 2 : Particular requirements – Section 2 : Recessed luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-20 : 2015	Luminaires Part 2-20: Particular requirements - Lighting chains	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-22 : 2015	Luminaires – Part 2 – 22 : Particular requirements – Luminaires for emergency lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-23 : 2015	Luminaires Part 2-23: Particular requirements - Extra low voltage lighting systems for filament lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
<p>KC 60598-2-24 : 2015</p>	<p>Luminaires – Part 2 – 24 : Particular requirements – Luminaires with limited surface temperatures</p>	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>
<p>KC 60598-2-25 : 2015</p>	<p>Luminaires – Part 2 – 25 : Particular requirements – Luminaires for use in clinical areas of hospitals and health care buildings</p>	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
<p>KC 60598-2-4 : 2015</p>	<p>Luminaires – Part 2 – 4 : Particular requirements – Portable general purpose luminaires</p>	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>
<p>KC 60598-2-6 : 2015</p>	<p>Luminaires – Part 2 – 6 : Particular requirements – Luminaires with built-in transformers or convertors for filament lamps</p>	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
<p style="text-align: center;">KC 60598-2-8 : 2015</p>	<p style="text-align: center;">Luminaires – Part 2-8 : Particular requirements – Handlamps</p>	<p style="text-align: center;">CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>
<p style="text-align: center;">KC 60598-2-9 : 2015</p>	<p style="text-align: center;">Luminaires – Part 2 – 9 : Particular requirements – Photo and film luminaires(non – professional)</p>	<p style="text-align: center;">CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KC 60662 : 2015	High-pressure sodium vapour lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
K 60920 : 2000	Ballasts for tubular fluorescent lamps. General and safety requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 60921 : 2015	Ballasts for tubular fluorescent lamps – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
K 60926 : 2001	Auxiliares for Lamps - Starting Devices (Other Than Glow Starters) - General and Safety Requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 61195 : 2015	Double – capped fluorescent lamps – Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
<p>KC 61347-2-4 : 2015</p>	<p>Lamp controlgear – Part 2 - 4 : Particular requirements for d.c. supplied electronic ballasts for general lighting</p>	<p>CVCF : 3 kVA Power analyzer - Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester r : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)</p>
<p>KC 61347-2-5 : 2015</p>	<p>Lamp controlgear – Part 2 - 5 : Particular requirements for d.c. supplied electronic ballasts for public transport lighting</p>	<p>CVCF : 3 kVA Power analyzer - Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 61347-2-6 : 2015	Luminares – Part 2 – 6 : Particular requirements – Luminares with built-in transformers or convertors for filament lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 61347-2-7 : 2015	Lamp controlgear – Part 2-7 : Particular requirements for d.c. supplied electronic ballasts for emergency lighting	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7501 : 2003	Incandescent lamps for general lighting service	<ul style="list-style-type: none"> CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7504 : 2010	Small incandescent lamps for household use	<ul style="list-style-type: none"> CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7507 : 2001	Lamps for railway	<ul style="list-style-type: none"> CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C 7514 : 2014	Spot light and flood light lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7522 : 2005	Neon glow lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7523 : 2014	Tungsten halogen lamps(non-vehicle)	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7524 : 2001	Traffic signal lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7526 : 1989	BALL LAMPS	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7601 : 2004	Fluorescent lamps for general lighting service	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7602 : 2002	Glow starters for fluorescent lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7603 : 2014	Lighting fittings for fluorescent lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C 7604 : 2003	High pressure mercury vapour lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7607 : 2014	Metal halide lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7610 : 2003	Sodium vapour Lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7617 : 2003	Neon tubings	(0 ~ 2 000) V (0 ~ 30) A
KS C 7620 : 2003	Luminaries for fluorescent lamps for use in railway vehicles	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7621 : 2014	Spot light and flood light lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7631 : 1998	Electronic starters for fluorescent lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 M Ω Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C 7702 : 1996	Lamp caps and holders	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) %

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7703 : 2014	Lampholders and starterholders for fluorescent lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C 7711 : 2016	LED ground recessed luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7712 : 2016	LED flood-lighting luminaire	<ul style="list-style-type: none"> CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7713 : 2016	LED landscape lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7716 : 2016	LED tunnel luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<p>Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)</p>
KS C 8013 : 2002	A.C supplied electronic ballasts for discharge lamps	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester :</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 8102 : 2004	Magnetic ballasts for fluorescent lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 8105 : 1985	Hand Lanterns	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) %

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C 8107 : 1979	Projectors for incandescent lamps (Flood light type)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C 8108 : 2002	Ballasts for sodium vapour lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 8109 : 2014	Ballasts for metalhalide lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 60081 : 2012	Double – capped fluorescent lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C IEC 60188 : 2002	High-Pressure mercury vapour lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C IEC 60192 : 2002	Low – pressure sodium vapour lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C IEC 60238 : 2002	Edison screw lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60400 : 2002	Lampholders for tubular fluorescent lamps and starterholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60432-1 : 2002	Incandescent lamps – Safety specifications – Part 1 : Tungsten filament lamps for domestic and similar	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
	general lighting purposes	AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 60598-2-1 : 2002	Luminaires—Part 2 : Particular requirements—Section 1 : Fixed general purpose luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-10 : 2003	Luminaires—Part 2—10 : Particular requirements—Portable child-appealing luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C IEC 60598-2-17 : 2003	Luminaires – Part 2 – 17 : Particular requirements – Luminaires for stage lighting, television, film and photographic studios(outdoor and indoor)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-19 : 2003	Luminaires – Part 2 – 19 : Particular requirements – Air – handling luminaires(safety requirements)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-2 : 2002	Luminaires – Part 2 : Particular requirements – Section 2 : Recessed luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-20 : 2003	Luminaires – Part 2 – 20 : Particular requirements – Lighting chains	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-22 : 2015	Luminaires – Part 2 – 22 : Particular requirements – Luminaires for emergency lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-23 : 2003	Luminaires – Part 2 – 23 : Particular requirements – Extra low voltage lighting systems for filament lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-24 : 2015	Luminaires – Part 2 – 24 : Particular requirements – Luminaires with limited surface temperatures	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) %

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-25 : 2015	Luminaires – Part 2 – 25 : Particular requirements – Luminaires for use in clinical areas of hospitals and health care buildings	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-3 : 2014	Luminaires – Part 2 – 3 : Particular requirements – Luminaires for road and street lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-4 : 2003	Luminaires – Part 2 – 4 : Particular requirements – Portable general purpose luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-5 : 2003	Luminaires – Part 2 – 5 : Particular requirements – Floodlights	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KS C IEC 60598-2-6 : 2003	Luminaires – Part 2 – 6 : Particular requirements – Luminaires with built-in transformers or convertors for filament lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-7 : 2003	Luminaires – Part 2 – 7 : Particular requirements – Portable luminaires for garden use	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-8 : 2008	Luminaires – Part 2-8 : Particular requirements – Handlamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60598-2-9 : 2003	Luminaires – Part 2 – 9 : Particular requirements – Photo and film luminaires(non – professional)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C IEC 60662 : 2014	gh-pressure sodium vapour lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 M Ω Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C IEC 60901 : 2014	Single-capped fluorescent lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C IEC 60929 : 2008	A.C supplied electronic ballasts for tubular fluorescent lamps – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 60968 : 2014	Self-ballasted lamps for general lighting services – Safety requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 M Ω Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 60969 : 2002	Self-ballasted lamps for general lighting services – Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 M Ω Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C IEC 61047 : 2014	D.C or a.c supplied electronic step-down convertors for filament Lamps – Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61167 : 2014	Metal halide Lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 61195 : 2002	Double-capped fluorescent lamps – Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 61199 : 2015	Single-capped fluorescent lamps – Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
KS C IEC 61347-2-1 : 2002	Lamp controlgear—Part 2 - 1 : Particular requirements for starting devices(othar then glow starters)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61347-2-11 : 2002	Lamp controlgear—Part 2—11 : Particular requirements for miscellaneous electronic circuits used with luminaires	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61347-2-2 : 2002	Lamp controlgear – Part 2 - 2 : Particular requirements for d.c. or a.c. supplied electronic step-down converters for filament lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61347-2-7 : 2008	Lamp controlgear – Part 2-7 : Particular requirements for d.c. supplied electronic ballasts for emergency lighting	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61347-2-8 : 2008	Lamp controlgear – Part 2-8 : Particular requirements for ballasts for fluorescent lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C IEC 61347-2-9 : 2008	Lamp controlgear – Part 2-9 : Particular requirements for ballasts for discharge lamps(excluding fluorescent lamps)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 60838-2-2 : 2015	Miscellaneous lampholders – Part 2 – 2 : Particular requirements – Connectors for LED-modules	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 61347-2-13 : 2015	Lamp controlgear – Part 2 – 13 : Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	CVCF : 3 kVA Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KC 62031 : 2015	LED modules for general lighting – Safety specifications	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 62384 : 2014	DC or AC supplied electronic control gear for LED modules – Performance requirements	CVCF : 3 kVA Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope:

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7651 : 2016	LED lamps using internal converter	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C 7652 : 2014	Non-ballasted LED lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KC 60400 : 2015	Lampholders for tubular fluorescent lamps and starterholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60598-2-3 : 2015	Luminaires – Part 2 – 3 : Particular requirements – Luminaires for road and street lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KC 60081 : 2015	Double – capped fluorescent lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KC 60901 : 2015	Single-capped fluorescent lamps – Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) <ul style="list-style-type: none"> - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
KS C 7653 : 2016	Recessed and Fixed LED Luminaires	CVCF : 3 kVA Earth connection tester : <ul style="list-style-type: none"> - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : <ul style="list-style-type: none"> - Relative humidity (91 ~ 95) % Insulation-resistance tester : <ul style="list-style-type: none"> - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : <ul style="list-style-type: none"> - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : <ul style="list-style-type: none"> - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) <ul style="list-style-type: none"> - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7655 : 2011	DC or AC supplied electronic control gear for LED modules - Safety and Performance requirements	CVCF : 3 kVA Earth connection tester : <ul style="list-style-type: none"> - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C 7656 : 2016	LED lamps using Portable luminaires - Safety and Performance Requirements	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
KS C 7657 : 2014	LED sensor luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7658 : 2016	LED luminaires for road, street and area lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KS C 7659 : 2013	LED module for Channel Letter Signs- Safety and Performance Requirements	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)
KC 10023 : 2015	Self-Ballasted LED Lamp	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Pressure : 20 N, 125 °C Glow-wire : 650 °C Thermo-hygrostat : (-10 ~ 50) °C, - Relative humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - CCT (1 600 ~ 10 000) K On/Off : (0 ~ 50 000)
KC 10025 : 2015	LED Lamp for Fluorescent Lamp Retrofit - internal converter type	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Pressure : 20 N, 125 °C Glow-wire : 650 °C Thermo-hygrostat : (-10 ~ 50) °C, - Relative humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - CCT (1 600 ~ 10 000) K On/Off : (0 ~ 50 000)

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
KC 60432-2 : 2015	Incandescent lamps - Safety specifications Part 2 : Tungsten halogen lamps for domestic and similar general lighting purposes	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : A C (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Thermo-hygrostat : (-10 ~ 50) °C, Relative humidity : (91 ~ 95) % R.H.
KC 60432-3 : 2015	Incandescent lamps - Safety specifications Part 3 : Tungsten halogen lamps (non-vehicle)	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Thermo-hygrostat : (-10 ~ 50) °C, Relative humidity : (91 ~ 95) % R.H.
KC 61167 : 2015	Metalhalide lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Pressure : 20 N, 125 °C Glow-wire : 650 °C Thermo-hygrostat : (-10 ~ 50) °C, Relative humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - CCT (1 600 ~ 10 000) K
KS C 7717 : 2016	LED crosswalk luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<p>Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)</p>
KS C 8302 : 2014	Socket	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C On/Off : (0 ~ 50 000)
IEC 60598-2-10 Ed.2.0b : 2003	Luminaires - Part 2-10 : Particular requirements - Portable luminaires for children	<ul style="list-style-type: none"> CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-25 Ed.1.0b : 2004	Luminaires - Part 2 : Particular requirements - Section 25 : Luminaires for use in clinical areas of hospitals and health care buildings	<ul style="list-style-type: none"> CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
IEC 60598-2-5 : 2015	Luminaires - Part 2-5 : Particular requirements - Floodlights	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N 토크 : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>
IEC 60598-2-7 Ed.1.0b : 1994	Luminaires. Part 2 : Particular requirements. Section Seven : Portable luminaires for garden use	<p>CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 630) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>
IEC 61347-2-11 Ed.1.0b : 2001	Lamp controlgear - Part 2-11 : Particular requirements for miscellaneous electronic circuits used with luminaires	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61347-2-12 Ed.1.1b : 2010	Lampcontrolgear-Part2-12 : Particularrequirementsford.c.or a.c.supplielectronicballasts	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
<p>IEC 61347-2-2 Ed.2.0b : 2011</p>	<p>Lamp controlgear - Part 2-4 : Particular requirements for d.c. supplied electronic ballasts for general lighting</p>	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope : - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)</p>
<p>IEC 61347-2-7 Ed.3.0b : 2011</p>	<p>Lamp controlgear - Part 2-7 : Particular requirements for d.c. supplied electronic ballasts for emergency lighting</p>	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 62035 ed.2.0 : 2014	Discharge lamps (excluding fluorescent lamps) - Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60238/AMD1 : 2016 PRV	Edison screw lampholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60357 Amd.5 Ed. 3.0b : 2011	Tungsten halogen lamps (non-vehicle)	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
IEC 60400:2008+AMD1 : 2011+AMD2 : 2014 CSV	Lampholders for tubular fluorescent lamps and starterholders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60838-1/AMD1 : 2016 PRV	Miscellaneous lampholders - Part 1 : General requirements and tests	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60901 Amd.5 Ed.2.0b : 2011	Single-capped fluorescent lamps - Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60921 Ed.2.1b : 2006	Ballasts for tubular fluorescent lamps - Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
IEC 61184 Ed.3.1b : 2011	Bayonet lamp holders	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
IEC 60061-1 am50 ed3.0 : 2014	Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60061-2 am47 ed3.0 : 2014	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60061-4 Amd.14 Ed.1.0b : 2011	Lamp caps and holders together with gauges for the control of interchangeability	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
	and safety - Part 4	(0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60064 Amd.4 Ed.6.0b : 2005	Tungsten filament lamps for domestic and similar general lighting purposes - Performance requirement	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60081 Amd.5 Ed.5.0b : 2013	Double-capped fluorescent lamps - Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60155 Amd.2 Ed.4.0b : 2006	Glow-starters for fluorescent lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
IEC 60188 Ed.3.0b : 2001	High-pressure mercury vapour lamps - Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60192 Ed.3.0b : 2001	Low-pressure sodium vapour lamps - Performance specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60432-1 Ed.2.2b : 2012	Incandescent lamps - Safety specifications - Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60598-1 Ed.7.0b : 2014	Luminaires - Part 1 : General requirements and tests	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-1 Amd.1 Ed.1.0b : 1987	Luminaires. - Part 2 : Particular requirements. Section One : Fixed general purpose luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-17 Ed.1.0b : 1990	Luminaires. - Part 2 : Particular requirements. Section Seventeen - Luminaires for stage lighting, television and film studios (outdoor and indoor)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
IEC 60598-2-18 Amd.1 Ed.2.0b : 2011	Luminaires - Part 2 : Particular requirements - Section 18 : Luminaires for swimming pools and similar applications	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-19 Amd.2 Ed.1.0b : 1997	Luminaires - Part 2 : Particular requirements. Section 19 : Air-handling luminaires (safety requirements)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-2 Ed.3.0b : 2011	Luminaires - Part 2 : Particular requirements-Section2 : Recessed luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-20 Ed.4.0b : 2014	Luminaires - Part 2-20 : Particular requirements - Lighting chains	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-22 ed4.0 : 2014	Luminaires - Part 2-22 : Particular requirements - Luminaires for emergency lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-23 Ed.1.1b : 2001	Luminaires - Part 2-23 : Particular requirements - Extra low voltage lighting systems for filament lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-24 Ed.2.0b : 2013	Luminaires - Part 2-24 : Particular requirements - Luminaires with limited surface temperatures	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-25 Amd.1 Ed.1.0b : 2004	Luminaires - Part 2-25 : Particular requirements - Luminaires for use in clinical areas of hospitals and health care buildings	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-3 ed3.1 Consol. with am1 : 2011	Luminaires - Part 2-3 : Particular requirements - Luminaires for road and street lighting	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
IEC 60598-2-4 Ed.2.0b : 1997	Luminaires - Part 2 : Particular requirements - Section 4 : Portable general purpose luminaires	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-6 Amd.1 Ed.2.0 b : 1996	Luminaires - Part 2 : Particular requirements - Section 6 : Luminaires with built-in transformers for filament lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-8 Ed. 3.0 b : 2013	Luminaires - Part 2-8 : Particular requirements - Handlamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60598-2-9 Amd.1 Ed.2.0b : 1993	Luminaires. Part 2 : Particular requirements. Section Nine : Photo and film luminaires (non-professional)	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60662 Ed.2.0b : 2011	High-pressure sodium vapour lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 M Ω Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
IEC 60838-2-1 am2 ed1.0 : 2004	Miscellaneous lampholders - Part 2 : Particular requirements - Section 1 : Lampholders S14	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 60923 Ed.3.1b : 2006	Auxiliaries for lamps - Ballasts for discharge lamps (excluding tubular fluorescent lamps) - Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
IEC 60927 ed3.1 Consol. with am1 : 2013	Auxiliaries for lamps - Starting devices (other than glow starters) - Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
IEC 60929 : 2011+AMD1 : 2015 CSV	AC-supplied electronic ballasts for tubular fluorescent lamps - Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		- Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 60968 : 2015	Self-ballasted lamps for general lighting services - Safety requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 60969 Ed.1.2b : 2001	Self-ballasted lamps for general lighting services - Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K On/Off : (0 ~ 50 000)
IEC 61047 Ed.2.0b : 2004	DC or AC supplied electronic step-down convertors for filament lamps - Performance requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		: 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61050 : 1994	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1000 V (generally called neon-transformers). General and safety requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61167 : 2015	Metal halide lamps	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		: AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 61195 ed2.2 Consol. with am1&2 : 2014	Double-capped fluorescent lamps - Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 61199 ed3.2 Consol. with am1&2 : 2014	Single-capped fluorescent lamps - Safety specifications	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 61347-1 : 2015 RLV	Lamp controlgear - Part 1 : General and safety requirements	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61347-2-1 ed1.2 Consol. with am1&2 : 2013	Lamp controlgear - Part 2-1 : Particular requirements for starting devices (other than glow starters)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61347-2-10 Ed.1.1b : 2009	Lamp controlgear - Part 2-10 : Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) %

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61347-2-3 Ed.2.0b : 2011	Lamp controlgear - Part 2-3 : Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61347-2-8 Ed.1.1b : 2006	Lamp controlgear - Part 2-8 : Particular requirements for ballasts for fluorescent lamps	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		(0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 61347-2-9 Ed.1.1b : 2003	Lamp controlgear - Part 2-9 : Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 60838-2-2 Amd.1 Ed. 1.0 b : 2012	Miscellaneous lampholders Part2-2 : Particular requirements Connectors for LED-modules	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 61347-2-13 : 2006	Lamp controlgear Part 2-13 : Particular requirements for d.c. or a.c. supplied electronic controlgear	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 62031 : 2008+AMD1 : 2012+AMD2 : 2014	LED modules for general lighting - Safety specifications	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
CSV		<p>(0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K Thermal shock test : (-10 ~ 70) °C On/Off : (0 ~ 50 000)</p>
IEC 62384 Ed. 1.1b : 2011	DC or AC supplied electronic control gear for LED modules Performance requirements	<p>CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1) Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) %</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 62471 Ed.1.0b : 2006	Photobiological safety of lamps and lamp systems	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC/TR 62471-2 Ed.1.0 en : 2009	Photobiological safety of lamps and lamp systems - Part 2 : Guidance on manufacturing requirements relating to non-laser optical radiation safety	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
IEC 62560 : 2011+AMD1 : 2015 CSV	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	CVCF : 3 kVA Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz, 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IEC 62386-101 : 2014	Digital addressable lighting interface - Part 101 : General requirements - System components	Forward Frame : 19 bit Data byte : 8 bit Backward Frame : 11 bit Bit rate : 1200 bps
IEC 62386-102 : 2014	Digital addressable lighting interface - Part 102: General requirements - Control gear	Forward Frame : 19 bit Data byte : 8 bit Backward Frame : 11 bit Bit rate : 1200 bps
IEC 62386-207 : 2009	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)	Forward Frame : 19 bit Data byte : 8 bit Backward Frame : 11 bit Bit rate : 1200 bps
ANSI C 82.77 : 2002	Harmonic emission limits-related power quality requirements for lighting equipment 3.1 Power factor	CVCF : 3 kVA Power analyzer -Power factor (0 ~ 1)
ANSI C 81.61 : 2007	American National Standard for Electrical Lamp Bases--Specifications for Bases (Caps) for Electric Lamps	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M.Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
ANSI C 78.20 : 2003	American National Standard for Electrical Lamps-A, G, PS and Similar Shapes with E26 Medium Screw Bases	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 M Ω - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
ANSI C 78.81 : 2001	Electric Lamps-Double-Capped Fluorescent Lamps-Dimensional and Electrical Characteristics	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 M Ω Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H.
ANSI C 82.11 : 1993	American National Standard for High-Frequency Fluorescent Lamp Ballasts - Supplements 3.3.1 Power Factor 3.3.3 and 5.6 Lamp Current Crest Factor 5.2 Lamp Start Time	CVCF : 3 kVA Digital vernier calipers : - (0 ~ 150) mm, 0.01 mm Digital Phosphor Oscilloscope: - 500 MHz 4Ch, 5 Gs/san Withstand voltage tester : 5 kV 100 mA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester :

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - Insulation resistance more than 2 MΩ - Protective earth 25 A Ball pressure test apparatus : 20 N Glow-wire : 650 °C Lighting characteristic : Constant temperature (-30 ~ 70) °C On/Off : (0 ~ 50 000)
IESNA LM-65-01 : 2001	Life Testing of Single-Ended Compact Fluorescent Lamps	<ul style="list-style-type: none"> CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Ball pressure : 20 N, 125 °C Glow-wire : 650 °C Constant temperature : (-10 ~ 50) °C, Humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : <ul style="list-style-type: none"> - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - Color temperature (1 600 ~ 10 000) K
UL 1598 : 2008	<p>The Standard for Safety of Luminaires</p> <p>19. Test Procedures and apparatus</p>	<ul style="list-style-type: none"> CVCF : 3 kVA Earth connection tester : <ul style="list-style-type: none"> - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : <ul style="list-style-type: none"> Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : <ul style="list-style-type: none"> - Relative humidity (91 ~ 95) % Insulation-resistance tester : <ul style="list-style-type: none"> - Insulation resistance more than 2 MΩ - Protective earth 25 A

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
ASTM G154-05L : 2006	Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials Table X2.1, Cycle7	CVCF : 3 kVA Earth connection tester : - Current more than 10 A - Earthing resistance (0 ~ 0.49) Ω Torque driver : (0.15 ~ 10) N·m (0.20 ~ 114.00) N·m Test for cord anchorages : Pull : (60 ~ 120) N Torque : (0.15 ~ 0.35) N·m Thermo-hygrostat : - Relative humidity (91 ~ 95) % Insulation-resistance tester : - Insulation resistance more than 2 MΩ - Protective earth 25 A Withstand voltage tester : - Test Voltage (0 ~ 3 660) V Ball pressure test apparatus : 20 N Glow-wire : 650 °C
IEC 62612 : 2013+AMD1 : 2015 CSV	Self-ballasted LED lamps for general lighting services with supply voltages > 50V - Performance requirements	CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Pressure : 20 N, 125 °C Glow-wire : 650 °C Thermo-hygrostat : (-10 ~ 50) °C, Relative humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements : - Total luminous flux (1 ~ 50 000) lm

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> - Power factor (0 ~ 1) - CRI (0 ~ 100) - CCT (1 600 ~ 10 000) K On/Off : (0 ~ 50 000)
IEC/PAS 62717 Ed.1.0 en : 2011	LED modules for general lighting - Performance requirements	<p>CVCF : 3 kVA Bending test : (0.1 ~ 2) N·m Insulation resistance more than 4 MΩ Withstand voltage : AC (0 ~ 3 660) V Torsional strength : (0 ~ 3) N·m Pressure : 20 N, 125 °C Glow-wire : 650 °C Thermo-hygrostat : (-10 ~ 50) °C, Relative humidity : (91 ~ 95) % R.H. Electrical and Photometric measurements :</p> <ul style="list-style-type: none"> - Total luminous flux (1 ~ 50 000) lm - Power factor (0 ~ 1) - CRI (0 ~ 100) - CCT (1 600 ~ 10 000) K - On/Off : (0 ~ 50 000)
INMETRO/MDIC Ordinance N.389- 25/08/2014(Portaria INMETRO / MDIC número 389- de 25/08/2014)	Conformity evaluation requirements for LED lamps with integrated control device (Aprovar o Regulamento Técnico da Qualidade para Lâmpadas LED com Dispositivo de Controle Integrado à Base)	<ul style="list-style-type: none"> -Dimensions <ul style="list-style-type: none"> ◦ Digital vernier callipers : (0~150) mm -Base interchangeability <ul style="list-style-type: none"> ◦ Except for lamps which installed B15d, GZ10, GU4, GY4, G6.35, GY6.35, G53, GU7, G5.3 and R17DC caps -Protection against accidental contact with live parts <ul style="list-style-type: none"> ◦ In accordance with IEC 62529 -Insulating resistance and dielectric strength after exposure to moisture <ul style="list-style-type: none"> ◦ Withstand voltage tester : 5 kV, 110 mA

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<ul style="list-style-type: none"> ◦ Thermo-Hygrostat : (-30 ~ 150) °C, (25 ~ 95) % R.H. ◦ Insulation-resistance tester : (50 ~ 1 000) V -Torsion resistance <ul style="list-style-type: none"> ◦ Torque Wrench : (0.5 ~ 500) N·cm -Resistance to the heating & Resistance to the fire and ignition <ul style="list-style-type: none"> ◦ Ball Pressure Tester : 20 N, ϕ5 mm ◦ Glow Wire Tester : (0 ~ 950) °C -Lamp wattage, Power factor and harmonic currents limit <ul style="list-style-type: none"> ◦ Power Analyzer Lamp wattage : (0 ~ 10 000) W Power factor : 0.2 ~ 1.0 Harmonic Currents Limit : (1 ~ 5) A, (0 ~ 20) % - Luminous flux, Value of the peak luminous intensity, Luminous distribution, Luminous beam angle, Correlated color temperature(CCT), Color reproduction index(CRI) and Luminous flux maintenance test (lumen) and nominal life definition <ul style="list-style-type: none"> ◦ Goniometer luminous intensity : (10 ~ 500,000) cd ◦ Total Luminous Flux Meter Luminous Flux : (1 ~ 100 000) lm CRI : (0 ~ 100) CCT : (1 600 ~ 10 000) K - Quality verification test of the electronic design for electrolytic

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		capacitors ◦ Temperature Recorder : (-200 ~ 1 370) °C - Electromagnetic interference ◦ In accordance with CISPR 15 : 2013
INMETRO/MDIC Ordinance N.143- 13/03/2015(Portaria INMETRO / MDIC número 143- de 13/03/2015)	Amendment on conformity evaluation requirements for LED lamps with integrated control device(Ajustes no Regulamento Técnico da Qualidade para Lâmpadas LED com Dispositivo Integrado à Base, aprovado pela Portaria Inmetro nº 389/2014)	-Dimensions ◦ Digital vernier callipers : (0~150) mm -Base interchangeability ◦ Except for lamps which installed B15d, GZ10, GU4, GY4, G6.35, GY6.35, G53, GU7, G5.3 and R17DC caps -Protection against accidental contact with live parts ◦ In accordance with IEC 62529 -Insulating resistance and dielectric strength after exposure to moisture ◦ Withstand voltage tester : 5 kV, 110 mA ◦ Thermo-Hygrostat : (-30 ~ 150) °C, (25 ~ 95) % R.H. ◦ Insulation-resistance tester : (50 ~ 1 000) V -Torsion resistance ◦ Torque Wrench : (0.5 ~ 500) N·cm -Resistance to the heating & Resistance to the fire and ignition ◦ Ball Pressure Tester : 20 N, φ5 mm ◦ Glow Wire Tester : (0 ~ 950) °C -Lamp wattage, Power factor and harmonic currents limit ◦ Power Analyzer Lamp wattage : (0 ~ 10 000) W Power factor : 0.2 ~ 1.0

Korea Laboratory Accreditation Scheme

No. KT011

03.009 Lighting appliance

Test method	Standard designation	Test range
		<p>Harmonic Currents Limit : (1 ~ 5) A, (0 ~ 20) %</p> <p>- Luminous flux, Value of the peak luminous intensity, Luminous distribution, Luminous beam angle, Correlated color temperature(CCT), Color reproduction index(CRI) and Luminous flux maintenance test (lumen) and nominal life definition</p> <ul style="list-style-type: none"> ◦ Goniometer luminous intensity : (10 ~ 500,000) cd ◦ Total Luminous Flux Meter Luminous Flux : (1 ~ 100 000) lm CRI : (0 ~ 100) CCT : (1 600 ~ 10 000) K <p>- Quality verification test of the electronic design for electrolytic capacitors</p> <ul style="list-style-type: none"> ◦ Temperature Recorder : (-200 ~ 1 370) °C <p>- Electromagnetic interference</p> <ul style="list-style-type: none"> ◦ In accordance with CISPR 15 : 2013

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 60601-1 ed3.1 : 2012	Medical electrical equipment - Part 1 : General requirements for basic safety and essential performance <Exception> 9.5.2 Cathod Ray Tubes 11.4 ME equipment and ME systems intended for use with flammable anaesthetics	AC(0 ~ 600) V, AC(0 ~ 80) kV, (0 ~ 20) A, (0 ~ 20) kA, (-10 ~ 150) °C, (-200 ~ 1 270) °C, 98 % R.H., (45 ~ 66) Hz, 1 GHz, 20 MVA, 1 M Ω , 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min
IEC 60601-1 ed3.0 : 2005 + am1 : 2012	Medical electrical equipment - Part 1 : General requirements for basic safety and essential performance <Exception> 9.5.2 Cathod Ray Tubes 11.4 ME equipment and ME systems intended for use with flammable anaesthetics	AC(0 ~ 600) V, AC(0 ~ 80) kV, (0 ~ 20) A, (0 ~ 20) kA, (-10 ~ 150) °C, (-200 ~ 1 270) °C, 98 % R.H., (45 ~ 66) Hz, 1 GHz, 20 MVA, 1 M Ω , 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min
IEC 60601-1-3 ed 2.1 : 2013	Medical electrical equipment - Part 1-3 : General requirements for basic safety and essential performance - Collateral Standard : Radiation protection in diagnostic X-ray equipment	AC(0 ~ 600) V, AC(0 ~ 80) kV, (0 ~ 20) A, (0 ~ 20) kA, (-10 ~ 150) °C, 98 % R.H., 2 000 mm, 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min, (45 ~ 66) Hz, 1 GHz, 20 MVA, 1 M Ω
IEC 60601-1-6 ed3.1 : 2013	Medical electrical equipment - Part 1-6 : General requirements for basic safety and essential performance - Collateral standard : Usability	AC(0 ~ 600) V, (0 ~ 20) A, (45 ~ 66) Hz, (-10 ~ 150) °C, 98 % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 60601-1-8 ed2.0 : 2006 + am1 : 2012	Medical electrical equipment - Part 1-8 : General requirements for basic safety and essential performance – Collateral standard : General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	AC(0 ~ 600) V, (0 ~ 20) A, (45 ~ 66) Hz, (-10 ~ 150) °C, 98 % R.H., 95 dB
IEC 60601-1-9 ed1.1 : 2013	Medical electrical equipment - Part 1-9 : General requirements for basic safety and essential performance-Collateral Standard : Requirements for environmentally conscious design	AC(0 ~ 600) V, (0 ~ 20) A, (45 ~ 66) Hz, (-10 ~ 150) °C, 98 % R.H.
IEC 60601-1-10 ed1.0 : 2007 + am1 : 2013	Medical electrical equipment - Part 1-10 : General requirements for basic safety and essential performance-Collateral Standard : Requirements for the development of physiologicclosed-loopcontrollers	AC(0 ~ 600) V, (0 ~ 20) A, (45 ~ 66) Hz, (-10 ~ 150) °C, 98 % R.H.
IEC 60601-1-11 ed2.0 : 2015	Medical electrical equipment - Part 1-11 : General requirements for basic safety and essential performance - Collateral Standard : Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	AC(0 ~ 600) V, (0 ~ 20) A, (45 ~ 66) Hz, (-10 ~ 150) °C, 98 % R.H.
IEC 60601-2-2 ed5.0 : 2009	Medical electrical equipment - Part 2-2 : Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories	(0 ~ 400) W, (20 ~ 2 200) mA, (10 ~ 5 200) Ω, (-10 ~ 150) °C, 98 % R.H.

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 60601-2-4 ed3.0 : 2010	Medical electrical equipment - Part 2-4 : Particular requirements for the basic safety and essential performance of cardiac defibrillators	(0.1 ~ 600) J, (0.1 ~ 100) s, (25 ~ 200) Ω
IEC 60601-2-5 ed3.0 : 2009	Medical electrical equipment - Part 2-5 : Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment	(0 ~ 30) W, (0.5 ~ 45) MHz
IEC 60601-2-10 ed2.0 : 2012	Medical electrical equipment - Part 2-10 : Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	(0 ~ 2) k Ω , AC(0 ~ 80) kV, (0 ~ 20) kA, 1 GHz
IEC 60601-2-18 ed3.0 : 2009	Medical electrical equipment - Part 2-18 : Particular requirements for the basic safety and essential performance of endoscopic equipment	(0 ~ 2000) mm, 0.01 mm, (0 ~ 180) $^{\circ}$, 0.5 $^{\circ}$
IEC 60601-2-21 ed2.0 : 2009	Medical electrical equipment - Part 2-21 : Particular requirements for the basic safety and essential performance of infant radiant warmers	(-10 ~ 150) $^{\circ}$ C, (-200 ~ 1 270) $^{\circ}$ C, 98 % R.H.
IEC 60601-2-22: 2007/AMD1:2012	Medical electrical equipment - Part 2-22 : Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	10 nW ~ 300 W, (0 ~ 2000) mm, 0.01 mm, 1 GHz, 1 ms
IEC 60601-2-24 ed2.0 : 2012	Medical electrical equipment - Part 2-24 : Particular requirements for the basic safety and essential performance of infusion pumps and controllers	(0.5 ~ 1 000) mL, 0.000 1 g

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 60601-2-25 ed2.0 : 2011	Medical electrical equipment - Part 2-25 : Particular requirements for the basic safety and essential performance of electrocardiographs	(0 ~ 2000) mm, 0.01 mm, 10 ms, 5 kV
IEC 60601-2-27 ed3.0 : 2011	Medical electrical equipment - Part 2-27 : Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	(0 ~ 2000) mm, 0.01 mm, 0.01 s, 5 kV
IEC 60601-2-28 ed2.0 : 2010	Medical electrical equipment - Part 2-28 : Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis	(0 ~ 2000) mm, 0.01 mm, 1 M Ω
IEC 60601-2-37 ed2.0 : 2007	Medical electrical equipment - Part 2-37 : Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	(0 ~ 30) W, (0.5 ~ 45) MHz, 0.5 mm
IEC 60601-2-41 ed. 2.1:2013	Medical electrical equipment - Part 2-41 : Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis	(0 ~ 9999) lx
IEC 60601-2-44 ed3.0 : 2009 + am1 : 2012	Medical electrical equipment - Part 2-44 : Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography	(22 ~ 160) kVp, (1 ~ 1000) mA, (0.1 ~ 9999) mAs, 1 mR ~ 9999 R, 0.1 r/min ~ 999 r/min
IEC 60601-2-45 ed3.0 : 2011	Medical electrical equipment - Part 2-45 : Particular requirements for basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices	(22 ~ 160) kVpp, (1 ~ 1000) mA, (0.1 ~ 9999) mAs, 1 mR ~ 9999 R, 0.1 r/min ~ 999 r/min

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 60601-2-46 ed2.0 : 2010	Medical electrical equipment - Part 2-46 : Particular requirements for basic safety and essential performance of operating tables	(0 ~ 560) kg, (0 ~ 5) kN, (-10 ~ 150) °C, (-200 ~ 1 270) °C, (0 ~ 2 000) mm, 10 ms, 94 dB, 98 % R.H.
IEC 60601-2-49 ed2.0 : 2011	Medical electrical equipment - Part 2-49 : Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	(0 ~ 2 000) mm, 0.01 mm, 0.01 s, 5 kV
IEC 60601-2-50 ed2.0 : 2009	Medical electrical equipment - Part 2-50 : Particular requirements for the basic safety and essential performance of infant phototherapy equipment	10 nW ~ 300 W, (0 ~ 2 000) mm, 0.01 mm, 1 GHz, 1 ms
IEC 60601-2-54 ed1.0 : 2009	Medical electrical equipment - Part 2-54 : Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy	(22 ~ 160) kVp, (1 ~ 1 000) mA, (0.1 ~ 9 999) mAs, 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min
IEC 60601-2-57 ed1.0 : 2011	Medical electrical equipment - Part 2-57 : Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	10 nW ~ 300 W, (0 ~ 2 000) mm, 0.01 mm, 1 GHz, 1 ms

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 60601-2-63 ed1.0 : 2012	Medical electrical equipment - Part 2-63 : Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment	(22 ~ 160) kVp, (1 ~ 1 000) mA, (0.1 ~ 9 999) mAs, 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min
IEC 60601-2-65 ed1.0 : 2012	Medical electrical equipment - Part 2-65 : Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment	(22 ~ 160) kVp, (1 ~ 1 000) mA, (0.1 ~ 9 999) mAs, 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min
IEC 60601-2-66: 2015	Medical electrical equipment - Part 2-66 : Particular requirements for the basic safety and essential performance of hearing instruments and hearing instrument systems	(DC ~ 51.2) kHz, 160 dB
IEC 80601-2-30 ed1.0 : 2009 + am1 : 2013	Medical electrical equipment - Part 2-30 : Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers	(0 ~ 300) mmHg, (0 ~ 300) mmHg
IEC 80601-2-35 ed2.0 : 2009	Medical electrical equipment - Part 2-35 : Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use <Exception> 201.8.7.4.7 Measurement of the patient leakage current	(0 ~ 560) kg, (0 ~ 5) kN, (-10 ~ 150) °C, (-200 ~ 1 270) °C, (0 ~ 2 000) mm, 94 dB

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
IEC 80601-2-58 ed2.0 : 2014	Medical electrical equipment - Part 2-58 : Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery	(0 ~ 20) kA, (-200 ~ 1 270) °C, 1 GHz, 1 MΩ
IEC 80601-2-59 ed1.0 : 2008	Medical electrical equipment - Part 2-59 : Particular requirements for the basic safety and essential performance of screening thermographs for human febrile temperature screening	(0 ~ 20) kA, (-200 ~ 1 270) °C, 1 GHz, 20 MVA
IEC 80601-2-60 : 2012	Medical electrical equipment - Part 2-60 : Particular requirements for basic safety and essential performance of dental equipment	(10 ~ 99 999) Rotation Per Minute, (0 ~ 3) N \bar{m} , 0.05 N \bar{m} , 1 GHz, 20 MVA
EN 60601-2-43 : 2010	Medical electrical equipment - Part 2-43 : Particular requirements for basic safety and essential performance of X-ray equipment for interventional procedures	(22 ~ 160) kVp, (1 ~ 1 000) mA, (0.1 ~ 9 999) mAs, 1 mR ~ 9 999 R, 0.1 r/min ~ 999 r/min
EN 60601-2-52 : 2010	Medical electrical equipment - Part 2-52 : Particular requirements for basic safety and essential performance of medical beds	(0 ~ 560) kg, (0 ~ 5) kN, (-10 ~ 150) °C, (-200 ~ 1 270) °C, (0 ~ 2 000) mm, 94 dB, 98 % R.H.
EN 80601-2-30 : 2010	Medical electrical equipment - Part 2-30 : Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers	(0 ~ 300) mmHg, (0 ~ 300) mmHg

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
EN 80601-2-35 : 2009	Medical electrical equipment - Part 2-35 : Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use <Exception> 201.8.7.4.7 Measurement of the patient leakage current	(0 ~ 560) kg, (0 ~ 5) kN, (-10 ~ 150) °C, (-200 ~ 1 270) °C, (0 ~ 2 000) mm, 94 dB
ISO 80601-2-12 ed1.0 : 2011	Medical electrical equipment – Part 2-12 : Particular requirements for basic safety and essential performance of critical care ventilators	± 689 kPa, ± 500 mmHg, ± 300 L/min, ± 25 L/min, (0 ~ 100) %
ISO 80601-2-56 ed1.0 : 2009	Medical electrical equipment - Part 2-56 : Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	(5 ~ 100) °C, 0.000 1 °C, 98 % R.H.
ISO 80601-2-61 ed1.0 : 2011	Medical electrical equipment - Part 2-61 : Particular requirements for basic safety and essential performance of pulse oximeter equipment	(35 ~ 100) %, (30 ~ 250) Beat Per Minute)
EN 60601-2-33 : 2010	Medical electrical equipment – Part 2-33 : Particular requirements for the safety of magnetic resonance equipment for medical diagnosis	(-200 ~ 1 270) °C, (0 ~ 2) T, ± 2 %
EN 60601-2-40 : 1998	Medical electrical equipment – Part 2-40 : Particular requirements for the safety of electromyographs and evoked response equipment	(0~20) kA, AC(0 ~ 80) kV, (0 ~ 2) kΩ,

Korea Laboratory Accreditation Scheme

No. KT011

03.010 Medical machine

Test Method	Standard designation	Test range
EN 60601-2-51 : 2003	Medical electrical equipment – Part 2-51 : Particular requirements for safety including essential performance of recording and analysing single channel and multi channel electrocardiographs	(0~2 000) mm, ± 0.01 mm, 10 ms, 5 kV
EN 80601-2-59 : 2009	Medical electrical equipment – Part 2-59 : Particular requirements for the basic safety and essential performance of screening thermographs for human febrile temperature screening	(0~20) kA, (-200 ~ 1 270) °C, 1 GHz, 20 MVA

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C CISPR 11 : 2011	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
KS C CISPR 14-1 : 2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz DP : 30 MHz ~ 300 MHz
KS C CISPR 14-2 : 2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz V-Dip : Rated current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C CISPR 15 : 2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz CDN : 30 MHz ~ 300 MHz
KS C CISPR 22 : 2011	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
KS C CISPR 24 : 2014	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 1 A/m V-Dip : Rated current 16 A
KS C CISPR 61000-6-3 : 2014	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz
KS C IEC 60601-1-2 : 2012	Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral Standard : Electromagnetic disturbances - Requirements and tests	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 2.5 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A
KS C IEC 60947-1 : 2014	Low-voltage switchgear and controlgear - Part 5-1 : Control circuit devices and switching elements - Electromechanical control circuit devices 7.3 Electro-Magnetic Compatibility	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz ESD : 8 kV RS : 80 MHz ~ 2 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C IEC 61000-4-2 : 2010	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
KS C IEC 61000-4-3 : 2013	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz
KS C IEC 61000-4-4 : 2013	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : 8 kV
KS C IEC 61000-4-5 : 2014	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV
KS C IEC 61000-4-6 : 2010	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	CS : 150 kHz ~ 230 MHz
KS C IEC 61000-4-8 : 2010	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	MF : 130 A/m(continuous) 1 000 A/m(short)
KS C IEC 61000-4-11 : 2008	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A
KS C IEC 61000-4-13 : 2010	Electromagnetic compatibility (EMC) Part 4-13 : Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	Rating current 16 A
KS C IEC 61000-6-1 : 2014	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 27 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C IEC 61000-6-2 : 2014	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 27 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
KS C IEC 61000-6-4 : 2014	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz
KS C IEC 61547 : 2014	Equipment for general lighting purposes. EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A
KS C IEC 62040-2 : 2008	Uninterruptible power systems (UPS) - Part 2 : Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 10 kHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
KS C IEC 62053-21 : 2003	Electricity metering equipment (a.c.) - Particular requirements - Part 21 : Static meters for active energy (classes 1 and 2) 5.5 Electromagnetic compatibility (EMC)	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KN 14-1 : 2014	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz
KN 14-2 : 2014	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz V-Dip : Rated current 16 A
KN 15 : 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz CDN : 30 MHz ~ 300 MHz
KN 22 : 2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
KN 24 : 2011	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 1 A/m V-Dip : Rated current 16 A
KOFEIS 0101-1 : 2010	Standards of model approval and inspection technology for automatic fire extinguisher	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 100 MHz
KOFEIS 0301 : 2015	Standards of model approval and inspection technology for detector	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 100 MHz

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KOFEIS 0303 : 2015	Standards of model approval and inspection technology for transmitter	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 100 MHz
KOFEIS 0304 : 2016	Standards of model approval and inspection technology for control unit	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 100 MHz
KOFEIS 0309 : 2015	Standards of model approval and inspection technology for gas leakage alarm device	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 100 MHz
KOFEIS 0401 : 2015	Standards of model approval and inspection technology for exit light	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 30 MHz
IEC 60601-1-2 : 2014	Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral Standard : Electromagnetic disturbances - Requirements and tests	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz ESD : 15 kV RS : 80 MHz ~ 27 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
IEC 60947-1 : 2014	Low-voltage switchgear and controlgear - Part 1 : General rules	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 2 GHz EFT : 4 kV Surge : 4 kV CS : 150 kHz ~ 80 MHz V-Dip : Rated current 16 A
IEC 61000-3-2 : 2014	Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	Rated current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
IEC 61000-3-3 : 2013	Electromagnetic compatibility (EMC) - Part 3-3 : Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	Rated current 16 A
IEC 61000-4-2 : 2008	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
IEC 61000-4-3 : 2010	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz
IEC 61000-4-4 : 2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : 8 kV
IEC 61000-4-5 : 2014	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV
IEC 61000-4-6 : 2015	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	CS : 150 kHz ~ 230 MHz
IEC 61000-4-8 : 2009	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	MF : 130 A/m(continuous) 1 000 A/m(short)
IEC 61000-4-9 : 2001	Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test	Pulse MF : 1 000 A/m
IEC 61000-4-11 : 2010	Electromagnetic compatibility (EMC) -Part 4-11 : Testing and measuring techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
IEC 61000-4-13 : 2015	Electromagnetic compatibility (EMC) - Part 4-13 : Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	Rating current 16 A
IEC 61000-6-1 : 2005	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 27 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A
IEC 61000-6-2 : 2005	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 27 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
IEC 61000-6-3 : 2011	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
IEC 61000-6-4 : 2011	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
IEC 61547 : 2009	Equipment for general lighting purposes - EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
IEC 62040-2 : 2005	Uninterruptible power systems (UPS) - Part 2 : Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 10 kHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
IEC 62233 : 2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	400 kHz
CISPR 11 : 2015	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
CISPR 14-1 : 2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz
CISPR 14-2 : 2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz V-Dip : Rated current 16 A
CISPR 15 : 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz CDN : 30 MHz ~ 300 MHz
CISPR 22 : 2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
CISPR 24 : 2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 1 A/m V-Dip : Rated current 16 A
EN 50293 : 2012	Electromagnetic compatibility - Road traffic signal systems - Product standard	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1.8 GHz ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 1 kV CS : 150 kHz ~ 80 MHz MF : 60 A/m V-Dip : Rated current 16 A
EN 55011 : 2010	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
EN 55014-1 : 2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz
EN 55014-2 : 2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz V-Dip : Rated current 16 A
EN 55015 : 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz CDN : 30 MHz ~ 300 MHz

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
EN 55022 : 2012	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
EN 55024 : 2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 1 A/m V-Dip : Rated current 16 A
EN 60947-1 : 2014	Low-voltage switchgear and controlgear - Part 5-1 : Control circuit devices and switching elements - Electromechanical control circuit devices 7.3 Electro-Magnetic Compatibility	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 2 GHz EFT : 4 kV Surge : 4 kV CS : 150 kHz ~ 80 MHz V-Dip : Rated current 16 A
EN 61000-3-2 : 2014	Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase)	Rating current 16 A
EN 61000-3-3 : 2013	Electromagnetic compatibility (EMC) - Part 3-3 : Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	Rating current 16 A
EN 61000-4-2 : 2009	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
EN 61000-4-3 : 2010	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz
EN 61000-4-4 : 2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : 8 kV

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
EN 61000-4-5 : 2014	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV
EN 61000-4-6 : 2014	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	CS : 150 kHz ~ 230 MHz
EN 61000-4-8 : 2010	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	MF : 130 A/m(continuous) 1 000 A/m(short)
EN 61000-4-9 : 2001	Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test	Pulse MF : 1 000 A/m
EN 61000-4-11 : 2004	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A
EN 61000-4-13 : 2009	Electromagnetic compatibility (EMC) Part 4-13 : Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	Rating current 16 A
EN 61000-6-1 : 2007	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 27 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A
EN 61000-6-2 : 2005	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 27 GHz EFT : 2 kV Surge : 2 kV

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
		CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
EN 61000-6-3 : 2011	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
EN 61000-6-4 : 2011	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
EN 61547 : 2009	Equipment for general lighting purposes. EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-Dip : Rated current 16 A
EN 62040-2 : 2006	Uninterruptible power systems (UPS) - Part 2 : Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 10 kHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
AS/NZS 4251.1 : 1999	Electromagnetic compatibility (EMC) - Generic emission standard - Residential, commercial and light industry	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz
AS/NZS 4251.2 : 1999	Electromagnetic compatibility - Generic emission standard - Industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
AS/NZS CISPR 11 : 2011	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
AS/NZS CISPR 14-1 : 2013	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Emission	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz
AS/NZS CISPR 15 : 2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15, Ed.7.2 (2009) MOD)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz, CDN : 30 MHz ~ 300 MHz
AS/NZS CISPR 22 : 2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
FCC PART 15 : 2013	Radio Frequency Devices (Exclusion)Larger than 18 GHz	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz
FCC PART 18 : 2013	Industrial, Scientific and Medical equipment (Exclusion)Larger than 18 GHz	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz
EN 60601-1-2 : 2015	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Electromagnetic compatibility. Requirements and tests	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz ESD : 15 kV RS : 80 MHz ~ 27 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A

Korea Laboratory Accreditation Scheme

No. KT011

03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KN 62040-2 : 2012	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 10 kHz ~ 1 GHz ESD : 8 kV RS : 80 MHz ~ 1 GHz EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-Dip : Rated current 16 A
KN 32 : 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements	CE : 9 kHz ~ 30 MHz RE : 30 MHz ~ 18 GHz
KN 35 : 2015	Electromagnetic compatibility of multimedia equipment - Immunity Requirements	ESD : 16 kV RS : 80 MHz ~ 6 GHz EFT : 8 kV SURGE : 4 kV CS : 150 kHz ~ 300 MHz MF : 130 A/m V-Dip : 정격전류 16 A 이하
EN 55032 : 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements	CE : 9 kHz ~ 30 MHz RE : 30 MHz ~ 18 GHz
CISPR 32 : 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE : 9 kHz ~ 30 MHz RE : 30 MHz ~ 18 GHz
IEC PAS 62825 : 2013	Methods of measurement and limits for radiated disturbances from plasma display panel TVs in the frequency range 150 kHz to 30 MHz	RE : 150 kHz ~ 30 MHz
INMETRO/MDIC Ordinance N.427-10/09/2014	QUALITY TECHNICAL REGULATION FOR TELEVISION 5.3 ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Sensor lighting equipment	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Uninterruptible Power Supply System	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 500) A Power : AC (0 ~ 250) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Ballasts for Metal Halide Lamp	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Ballasts for Sodium Lamp	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Traffic Lights	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Ventilation Fans 6. Capture Efficiency (except) 7. Oil Absorption Ratio (except)	Voltage : AC (0 ~ 600) V Current : AC (0 ~ 20) A Effective Air Volume : (0.29 ~ 53.44) m ³ /min
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Metal-Halide Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - High illumination reflector for high brightness discharge lamp	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Exit Signs	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED lamps using external converter	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED lamps using internal converter	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Recessed and fixed LED luminaires	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Luminaires for security lighting	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED sensor luminaires	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - DC or AC supplied electronic control gear for LED modules	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - PLS luminaires	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Luminaires for UCD lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Street Luminaires	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Flood Luminaires	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Tunnel Luminaires	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Tubular LED Lamp (External Converter Type)	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Modules for Letter sign	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - LED Lamp for Fluorescent Lamp Retrofit(Internal converter type)	(0 ~ 1 000) V (0 ~ 30) A (0 ~ 10) kW
Motie Notice No. 2016-194	High-efficiency Appliance Certification Program - Luminaire's for Electrodeless fluorescent lamp	(0 ~ 1 000) V (0 ~ 30) A (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Computers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Monitors	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Printers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Fax Machines	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Copiers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Scanners	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Multifunction Devices	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Energy-Saving Controlling Devices	Voltage : (0 ~ 600) V Current : (0 ~ 20) A
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Home Audio Products	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - DVD Players	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Radio Cassette Players	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Microwave Ovens	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Door Phones	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Cordless/Corded phones	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Bidet	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2017-91 : 2017	Regulation on Standby Power Reduction Program - Hand Dryers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Refrigerators	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Kimchi Refrigerators	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - electricity air-conditioner	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Hot and Cold Water Dispensers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Rice Cookers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Electric Fans	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Air Volume : (0.25 ~ 30) m ³ /s
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Incandescent Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Fluorescent Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Compact Fluorescent Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Adapters & Chargers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Commercial Refrigerators	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Televisions	<RF> RF, IF, QAM, VSB, DVB signal RF : -49dB ± 2dB, IF : -16dB ± 1dB <Video> MPEG2bitstream, HDMI, DVD(IEC62087) <Audio> Frequency : 20Hz ~ 100kHz, Voltage : 0.6mV ~ 6V <Power> Voltage : AC (0 ~ 1000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Electric Fan heater	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Electric Stove	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Dehumidifier	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Clothes washing machines	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
MOTIE Notice No. 2017-61 : 2017	Regulation on Energy Efficiency Labeling and Standards - Household electric cooking appliances	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
ENERGYSTAR Program Requirements for Lamps(Light Bulbs) Version 1.1 : Aug-2014	ENERGYSTAR Program Requirements for Lamps(Light Bulbs)	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ENERGYSTAR Program Requirements Product Specification for Luminaires (LightFixtures) Version 2.0 : May-2015	ENERGYSTAR Program Requirements Product Specification for Luminaires(LightFixtures) Version 1.2 2012 - ANSI C 78.5-2003 - ANSI C 82.11-1993 - ANSI C 82.2-2002 - ANSI C 78.389-2004(R2009) - ANSI C 82.6-2005 - ANSI C 82.77-2002 - CIEPub.No.13.3-1995 - CIEPub.No.15 : 2004 - IESNA LM-9-09 - IESNA LM-40-01 - IESNA LM-65-01 - IESNA LM-66-00 - IESNA LM-10-96 - IESNA LM-41-98 - IESNA LM-47-01 - IESNA LM-51-00 - IESNA LM-31-95 - IESNA LM-46-04 - IESNA LM-58-94 - IESNA LM-79-08	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
	<ul style="list-style-type: none"> - IESNA LM-80-08 - IESNA LM-49-01 - IESNA LM-31-91 - IESNA TM-21-11 	
ENERGYSTAR Program Requirements for Decorative LightStrings Version 1.5 : Dec-2011	ENERGYSTAR Program Requirements for Decorative LightStrings <ul style="list-style-type: none"> - ASTM G154-05 CSA-22.2No.37-M1989 (R2004)" - CIE 84-1989 - CIE 127-1997 - IESNA TM-16-05 - UL 588-2004 	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-80-08	Measuring Lumen Maintenance of LED Light Sources	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 78.5	American National Standard for Electric Lamps-Specifications for Performance of Self-ballasted Compact Fluorescent Lamps 4.10 Lumen Maintenance 4.12 Life test	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 78.389-2004(R2009)	High-Intensity Discharge (HID)—Methods of Measuring Characteristics	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 82.2	Method of Measurement of Fluorescent Lamp Ballasts	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
ANSI C 82.6	Ballasts for High Intensity Discharge(HID) Lamps - Methods of Measurement	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE Pub.No.13.3	Method of Measuring and Specifying Color Rendering of Light Sources	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE Pub.No.15	Colorimetry	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE84	The Measurement of Luminous Flux	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE127	Measurement of LEDs	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CSA-22.2No.37-M19 89(R2004)	Christmas Tree and Other Decorative Lighting Outfits	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-9-09	Electric and Photometric Measurements of Fluorescent Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-10-96	Photometric Testing of Outdoor Fluorescent Luminaires	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-31-91	Photometric Testing of Roadway Luminaires Using Incandescent Filament and High Intensity Discharge Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-31-95	Photometric Testing of Roadway Luminaires Using Incandescent Filament and High Intensity Discharge (HID) Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-40-01	Life Testing of Fluorescent Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-41-98	Approved Method for Photometric Testing of Indoor Fluorescent Luminaries	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
IESNA LM-46-04	Photometric Testing of Indoor Luminaires Using High Intensity Discharge or Incandescent Filament Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-47-01	Life Testing of High Intensity Discharge (HID) Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-49-01	Incandescent Filament Lamps - Life Test Performance	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-51-00	Electrical and Photometric Measurements of High Intensity Discharge Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA TM-21-11	Projecting Long Term Lumen Maintenance of LED Packages (in draft 12/2010)	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-9-99	Approved Method for the Electrical and Photometric Measurements of Fluorescent Lamps SystemEfficacy	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-58-94	Spectroradiometric Measurements-Fluorescent Lamps ColorRenderingIndex Correlatedcolortemperature	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA TM-16-05	IESNA Technical Memorandum on Light Emitting Diode (LED) Sources and Systems	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
LM-66-00	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps SystemEfficacy	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
UL588	Standard for Seasonal and Holiday Decorative Products	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
ENERGYSTAR Program Requirements Product Specification for Audio / Version 3.0 : Dec-2014	ENERGYSTAR Test Method for Audio/Video, ENERGY STAR Program Requirements Product Specification for Audio/Video, Rev. Dec-2014	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
ENERGYSTAR Program Requirements Product Specification for Set-top Boxes Version 3.0 : Oct-2012	ENERGY STAR Test Method for Set-top Boxes(Testing Products for ENERGY STAR) ENERGY STAR Program Requirements for Set-top Boxes, Version 3.0 section 4, page 9	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
ENERGYSTAR Program Requirements Product Specification for Television Version 7.0 : Oct-2015	ENERGY STAR Test Method for Television, ENERGY STAR Program Requirements for Televisions, Rev. Rev. Oct-2015 - IEC62087, Ed2.0 : Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment - CEA-2037-A : Determination of Television Set Power Consumption (April-2014) - IEC62301 : Ed 2.0 : Household Electrical Appliances – Measurement of Standby Power. - CEA : Procedure for DAM Testing	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
<p>ENERGYSTAR Program Requirements Product Specification for Displays Version 7.0 : Nov-2015</p>	<p>ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements for Displays, Rev. Sep-2015</p> <ul style="list-style-type: none"> - CEA-2037-A : Determination of Television Set Power Consumption (April-2014) - Enhanced Performance Displays: International Committee for Display Metrology (ICDM) Information Display Measurements Standard – Version 1.03 	<p>Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW</p>
<p>ENERGYSTAR Program Requirements Product Specification for Imaging Equipment Version 2.0 : Jun-2013</p> <p>ENERGYSTAR Program Requirements Product Specification for Imaging Equipment Version 2.0 : Jun-2013</p>	<p>(DFE with Internal Power Supply or Multiple - Voltage External Power Supply)</p> <p>ENERGY STAR Imaging Equipment Test Method, ENERGY STAR Program Requirements Version 2.0, Product Specification for Imaging Equipment, page 20</p> <ul style="list-style-type: none"> - IEC 62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. - EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies. <p>Available at : www.efficientpowersupplies.org</p> <p>(InternalPowerSupplies)</p> <ul style="list-style-type: none"> - EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies. 	<p>Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
	<p>Available at : www.efficientpowersupplies.org</p> <p>(DFE with Single Voltage External Power Supply) ENERGY STAR Imaging Equipment Test Method, ENERGY STAR Program Requirements Version 2.0, Product Specification for Imaging Equipment, page 10</p> <ul style="list-style-type: none"> - IEC 62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. - Test Method for Calculating the Energy Efficiency of Single Voltage External AC-DC and AC-AC Power Supplies, Rev. August 11,2004. <p>Available at : www.efficientpowersupplies.org</p>	
<p>ENERGYSTAR Program Requirements Product Specification for Computers Version 6.1 : Oct-2014</p>	<p>ENERGYSTAR Program Requirements Product Specification for Computers ENERGYSTAR Computer Test Method, ENERGYSTAR Program Requirements Product Specification for Computers Version 6.0 Page 16</p> <p>EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies.</p> <p>Available at : www.efficientpowersupplies.org</p> <ul style="list-style-type: none"> - IEC 62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. (Internal Power Supplies) 	<p>Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
	EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. Available at : www.efficientpowersupplies.org	
ENERGYSTAR Program Requirements Product Specification for Telephony Version 3.0 : Nov-2013	ENERGY STAR Program Requirements Product Specification for Telephony ENERGYSTAR Test Method for Telephony, ENERGYSTAR Program Requirements Product Specification for Telephony, section4, page8	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
LM-82-12 : 2013	LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature	Voltage : AC (0 ~ 2 000) V Current : (0 ~ 30) A
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Computers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Monitors	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Printers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Fax Machines	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Copiers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Scanners	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Multifunction Devices	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Energy-Saving Controlling Devices	Voltage : (0 ~ 600) V Current : (0 ~ 20) A
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Home Audio Products	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - DVD Players	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Radio Cassette Players	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Microwave Ovens	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Door Phones	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Cordless/Corded phones	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Bidet	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-159 : 2015	Regulation on Standby Power Reduction Program - Hand Dryers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Refrigerators	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Kimchi Refrigerators	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - electricity air-conditioner	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Hot and Cold Water Dispensers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Rice Cookers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Electric Fans	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Air Volume : (0.25 ~ 30) m ³ /s
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Incandescent Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Fluorescent Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Ballasts for Fluorescent Lamp	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Compact Fluorescent Lamps	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Adapters & Chargers	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Commercial Refrigerators	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Televisions	<RF> RF, IF, QAM, VSB, DVB signal RF : -49dB ± 2dB, IF : -16dB ± 1dB <Video> MPEG2bitstream, HDMI, DVD(IEC62087) <Audio> Frequency : 20Hz ~ 100kHz, Voltage : 0.6mV ~ 6V <Power> Voltage : AC (0 ~ 1000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Electric Fan heater	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Electric Stove	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-184 : 2015	Regulation on Energy Efficiency Labeling and Standards - Dehumidifier	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-37 : 2015	Regulation on Energy Efficiency Labeling and Standards - Clothes washing machines	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
Motie Notice No. 2015-37 : 2015	Regulation on Energy Efficiency Labeling and Standards - Household electric cooking appliances	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW Temperature : (-50 ~ 300) °C
ENERGYSTAR Program Requirements for Solid State Lighting Luminaires Version 1.3 : Jan-2009	ENERGYSTAR Program Requirements for Solid State Lighting Luminaires - IESNA LM-79-08 sections 9 and 12 - ANSI C 82.77-2002 - IESNA LM-79-08section10 (Goniophotometer) - IESNA LM-80-08	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ENERGYSTAR Program Requirements for Lamps(Light Bulbs) Version 1.0 : Aug-2013	ENERGYSTAR Program Requirements for Lamps(Light Bulbs)	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
<p style="text-align: center;">ENERGYSTAR Program Requirements Product Specification for Luminaires (LightFixtures) Version 1.2 : Dec-2012</p>	<p>ENERGYSTAR Program Requirements Product Specification for Luminaires(LightFixtures) Version 1.2 2012</p> <ul style="list-style-type: none"> - ANSI C 78.5-2003 - ANSI C 82.11-1993 - ANSI C 82.2-2002 - ANSI C 78.389-2004(R2009) - ANSI C 82.6-2005 - ANSI C 82.77-2002 - CIEPub.No.13.3-1995 - CIEPub.No.15 : 2004 - IESNA LM-9-09 - IESNA LM-40-01 - IESNA LM-65-01 - IESNA LM-66-00 - IESNA LM-10-96 - IESNA LM-41-98 - IESNA LM-47-01 - IESNA LM-51-00 - IESNA LM-31-95 - IESNA LM-46-04 - IESNA LM-58-94 - IESNA LM-79-08 - IESNA LM-80-08 - IESNA LM-49-01 - IESNA LM-31-91 - IESNA TM-21-11 	<p style="text-align: center;">Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A</p>
<p style="text-align: center;">ENERGYSTAR Program Requirements for Decorative LightStrings Version 1.4 : Jan-2008</p>	<p>ENERGYSTAR Program Requirements for Decorative LightStrings</p> <ul style="list-style-type: none"> - ASTM G154-05 - CSA-22.2No.37-M1989 (R2004)" - CIE 84-1989 - CIE 127-1997 - IESNA TM-16-05 - UL 588-2004 	<p style="text-align: center;">Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A</p>
<p style="text-align: center;">IESNA LM-80-08</p>	<p style="text-align: center;">Measuring Lumen Maintenance of LED Light Sources</p>	<p style="text-align: center;">Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
IESNA LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 78.5	American National Standard for Electric Lamps-Specifications for Performance of Self-ballasted Compact Fluorescent Lamps 4.10 Lumen Maintenance 4.12 Life test	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 78.389-2004(R2009)	High-Intensity Discharge (HID)—Methods of Measuring Characteristics	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 82.2	Method of Measurement of Fluorescent Lamp Ballasts	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ANSI C 82.6	Ballasts for High Intensity Discharge(HID) Lamps - Methods of Measurement	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE Pub.No.13.3	Method of Measuring and Specifying Color Rendering of Light Sources	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE Pub.No.15	Colorimetry	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE84	The Measurement of Luminous Flux	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CIE127	Measurement of LEDs	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
CSA-22.2No.37-M19 89(R2004)	Christmas Tree and Other Decorative Lighting Outfits	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-9-09	Electric and Photometric Measurements of Fluorescent Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
IESNA LM-10-96	Photometric Testing of Outdoor Fluorescent Luminaires	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-31-91	Photometric Testing of Roadway Luminaires Using Incandescent Filament and High Intensity Discharge Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-31-95	Photometric Testing of Roadway Luminaires Using Incandescent Filament and High Intensity Discharge (HID) Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-40-01	Life Testing of Fluorescent Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-41-98	Approved Method for Photometric Testing of Indoor Fluorescent Luminaries	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-46-04	Photometric Testing of Indoor Luminaires Using High Intensity Discharge or Incandescent Filament Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-47-01	Life Testing of High Intensity Discharge (HID) Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-49-01	Incandescent Filament Lamps - Life Test Performance	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-51-00	Electrical and Photometric Measurements of High Intensity Discharge Lamps	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA TM-21-11	Projecting Long Term Lumen Maintenance of LED Packages (in draft 12/2010)	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA LM-9-99	Approved Method for the Electrical and Photometric Measurements of Fluorescent Lamps SystemEfficacy	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
IESNA LM-58-94	Spectroradiometric Measurements-Fluorescent Lamps ColorRenderingIndex Correlatedcolortemperature	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
IESNA TM-16-05	IESNA Technical Memorandum on Light Emitting Diode (LED) Sources and Systems	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
LM-66-00	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps SystemEfficacy	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
UL588	Standard for Seasonal and Holiday Decorative Products	Voltage : AC (0 ~ 2 000) V Current : AC (0 ~ 30) A
ENERGYSTAR Program Requirements Product Specification for Audio / Video Version 2.1 : Aug-2010	ENERGYSTAR Test Method for Audio/Video, ENERGY STAR Program Requirements Product Specification for Audio/Video, Rev. Aug-2010	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
ENERGYSTAR Program Requirements Product Specification for Set-top Boxes Version 3.0 : Oct-2012	ENERGY STAR Test Method for Set-top Boxes(Testing Products for ENERGY STAR) ENERGY STAR Program Requirements for Set-top Boxes, Version 3.0 section 4, page 9	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
<p>ENERGYSTAR Program Requirements Product Specification for Television Version 5.3 : Sep-2011</p>	<p>ENERGY STAR Test Method for Television, ENERGY STAR Program Requirements for Televisions, Rev. Jan-2011</p> <ul style="list-style-type: none"> - IEC62087, Ed2.0 : Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment - CEA-2037 : Determination of Television Average Power Consumption(March-2010) - IEC62301 : Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. - CEA : Procedure for DAM Testing 	<p>Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW</p>
<p>ENERGYSTAR Program Requirements Product Specification for Displays Version 6.0 : Jan-2013</p>	<p><30inch diagonal view able area> ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements Product Specification for Displays, page8</p> <ul style="list-style-type: none"> - IEC62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. <p><30-60inch diagonal viewable area> ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements Product Specification for Displays, page8</p> <ul style="list-style-type: none"> - IEC62087 Ed 2.0 : Methods of 	<p>Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW</p>

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
	Measurement for the Power Consumption of Audio, Video and Related Equipment - IEC62301, Ed2.0 : Household Electrical Appliances-Measurement of Standby Power.	
ENERGY STAR Program Requirements Product Specification for Imaging Equipment Version 2.0 : Jun-2013	(DFE with Internal Power Supply or Multiple - Voltage External Power Supply) ENERGY STAR Imaging Equipment Test Method, ENERGY STAR Program Requirements Version 2.0, Product Specification for Imaging Equipment, page 20 - IEC 62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. - EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies. Available at : www.efficientpowersupplies.org (Internal Power Supplies) - EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies. Available at : www.efficientpowersupplies.org (DFE with Single Voltage External Power Supply) ENERGY STAR Imaging Equipment Test Method, ENERGY STAR Program Requirements Version 2.0, Product Specification for Imaging Equipment, page 10 - IEC 62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. - Test Method for Calculating the Energy Efficiency of Single	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
	Voltage External AC-DC and AC-AC Power Supplies, Rev. August 11,2004. Available at : www.efficientpowersupplies.org	
ENERGYSTAR Program Requirements Product Specification for Computers ENERGYSTAR Program Requirements Product Specification for Computers Version 6.0 : Oct-2013	ENERGYSTAR Program Requirements Product Specification for Computers ENERGYSTAR Computer Test Method, ENERGYSTAR Program Requirements Product Specification for Computers Version 6.0 Page 16 EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. Available at : www.efficientpowersupplies.org - IEC 62301 Ed 2.0 : Household Electrical Appliances - Measurement of Standby Power. (Internal Power Supplies) EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. Available at : www.efficientpowersupplies.org	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
ENERGYSTAR Program Requirements Product Specification for Telephony Version 3.0 : Nov-2013	ENERGY STAR Program Requirements Product Specification for Telephony ENERGYSTAR Test Method for Telephony, ENERGYSTAR Program Requirements Product Specification for Telephony, section4, page8	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
LM-82-12 : 2013	LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature	Voltage : AC (0 ~ 2 000) V Current : (0 ~ 30) A
INMETRO/MDIC Ordinance N.427-10/09/2014	QUALITY TECHNICAL REGULATION FOR TELEVISION 5.1 PERFORMANCE REQUIREMENTS	Voltage : AC (0 ~ 1 000) V Current : AC (0 ~ 30) A Power : AC (0 ~ 10) kW
TVCN 7828 : 2013	Refrigerator, refrigerator-freezer – Energy Efficiency	Voltage : AC (0 ~ 600) V Current : AC (0 ~ 20) A Power : AC (0 ~ 4.8) kW Temperatures : (-50 ~ 200) °C Volumes : (1 ~ 1000.0) L
TVCN 7829 : 2013	Refrigerator, refrigerator-freezer - Method for determination of energy efficiency	Voltage : AC (0 ~ 600) V Current : AC (0 ~ 20) A Power : AC (0 ~ 4.8) kW Temperatures : (-50 ~ 200) °C Volumes : (1 ~ 1000.0) L
TVCN 9536 : 2012	Television sets - Energy efficiency	Voltage : AC (0 ~ 600) V Current : AC (0 ~ 20) A Power : AC (0 ~ 4.8) kW
TVCN 9537 : 2012	Television sets - Method for determination of energy efficiency	Voltage : AC (0 ~ 600) V Current : AC (0 ~ 20) A Power : AC (0 ~ 4.8) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
TVCN 8526 : 2013	Clothes washing machines for household use - Energy efficiency and the method for determination of energy efficiency	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW Washing performance : (1~100.00) Water extraction performance : (1~100.00) Water consumption : (1~999.0) L
TVCN 8252 : 2015	Rice cookers - Energy efficiency	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW Temperatures : (0~200) °C
TVCN 7826 : 2015	Electric fans - Energy Efficiency Ratio	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW Velocity : (0~30) m/s
TVCN 7827 : 2015	Electric fans - Methods for determination of energy efficiency	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW Velocity : (0~30) m/s
TVCN 9510 : 2012	Copiers - Energy efficiency	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW
TVCN 9509 : 2012	Printers - Energy Efficiency	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW
TVCN 9508 : 2012	Computer Monitors - Energy efficiency	Voltage : AC(0~600) V Current : AC(0~20) A Power : AC(0~48) kW
TCVN 8249 : 2013	Linear Tubular fluorescent lamps - Energy efficiency	Voltage : AC(0~1000) V Current : AC(0~30) A Power : AC(0~4.4) kW

Korea Laboratory Accreditation Scheme

No. KT011

03.013 Energy efficiency

Test method	Standard designation	Test range
TCVN 7541-1 : 2005	High efficiency lighting products - Part 1: Minimum energy performance	Voltage: AC (0 ~ 1 000) V Current : AC(0 ~ 30) A Power: AC(0 ~4.4) kW
TCVN 7541-2 : 2005	High efficiency light product – Part 2: Methods for determination of energy performance	Voltage: AC (0 ~ 1 000) V Current : AC(0 ~ 30) A Power: AC(0 ~4.4) kW
TCVN 7896 : 2015	Compact fluorescent lamps - Energy efficiency	Voltage: AC (0 ~ 1 000) V Current : AC(0 ~ 30) A Power: AC(0 ~4.4) kW
TCVN 7897 : 2013	Electronic ballasts for fluorescent lamps – Energy efficiency	Voltage: AC (0 ~ 1 000) V Current : AC(0 ~ 30) A Power: AC(0 ~4.4) kW
TCVN 8248 : 2013	Electromagnetic ballasts for fluorescent lamps – Energy efficiency	Voltage: AC (0 ~ 1 000) V Current : AC(0 ~ 30) A Power: AC(0 ~4.4) kW
IEC 60456 : 2010	Clothes washing machines for household use - Methods for measuring the performance 4. Requirements 5. Test conditions, materials, equipment and instrumentation 6. Preparation for testing 7. Performance measurements – general requirements 8. Tests for performance 9. Assessment of performance	Voltage : AC(0 ~ 600) V Current : AC (0 ~ 20) A Power : AC(0 ~ 4.8) kW Washing performance : (1 ~ 100.00) Water extraction performance : (1 ~ 100.00) Water consumption : (1 ~ 999.0) L
Portaria INMETRO / MDIC número 185 de 15/09/2005	SPECIFIC REGULATION FOR THE USE OF THE NATIONAL ENERGY CONSERVATION LABEL - ENCE (WASHING MACHINES)	Voltage : AC(0 ~ 600) V Current : AC (0 ~ 20) A Power : AC(0 ~ 4.8) kW Washing performance : (1 ~ 100.00) Water extraction performance : (1 ~ 100.00) Water consumption : (1 ~ 999.0) L

Korea Laboratory Accreditation Scheme

No. KT011

04. Heat and Temperature Measurement

04.001 Temperature and Humidity

Test Method	Standard designation	Test range
KS L 9016 : 2010	Test methods for thermal transmission properties of thermal insulations 6.3 Heat flow meter method	Min. 0.015 W/(m·K)
ASTM C518-15	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus Thermal conductivity	Min. 0.015 W/(m·K)
JIS A 1412-2 : 1999	Test method for thermal resistance and related properties of thermal insulations—Part 2 : Heat flow meter apparatus	Min. 0.015 W/(m·K)
ISO 8301 : 1991 /Amd.1 : 2010	Thermal insulation - Determination of steady-state thermal resistance and related properties - Heat flow meter apparatus Thermal conductivity	Min. 0.015 W/(m·K)

05. Non Destructive Test

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS B 0536 : 2005	Methods for measurement of thickness by ultrasonic pulse echo technique	Pulse Echo Method(A-Scan)
KS B 0816 : 2005	Method for liquid penetrant testing and classification of the penetrant indication	Solvent Removable Method (Fluorescent, Non Fluorescent)
KS B 0817 : 2016	General rule of ultrasonic testing of metals by pulse echo technique	Pulse Echo Method(A-Scan)

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS B 0845 : 2005	Methods of radiographic examination for welded joints in steel	(140 ~ 300) kV
KS B 0896 : 2014	Method for ultrasonic examination for welds of ferritic steel	Pulse Echo Method(A-Scan)
KS D 0040 : 2014	Classification of structural rolled steel plate and wide flat for building by ultrasonic test	Pulse Echo Method(A-Scan)
KS D 0213 : 2014	Method for magnetic particle testing of ferromagnetic materials and classification of magnetic particle indication	Yoke Method (Fluorescent, Non Fluorescent)
KS D 0227 : 2012	Methods of radiographic examination for steel castings	(140 ~ 300) kV
KS D 0237 : 1982	Methods of radiographic test and classification of radiographs for stainless steel welds	(140 ~ 300) kV
KS D 0241 : 2016	Methods for radiographic test and classification by radiographs of aluminium castings	(140 ~ 300) kV
KS D 0242 : 2002	Method of radiographic examination for fusion welded butt joints of aluminium plates	(140 ~ 300) kV
KS B 0838 : 2006	Methods of radiographic test for circumferential butt welds of aluminium pipes and tubes	(140 ~ 300) kV
KS D 0245 : 1992	Methods of radiographic testing for aluminium T-welds	(140 ~ 300) kV
KS D 0248 : 2014	Methods of ultrasonic examination for carbon and low alloy steel forgings	Pulse Echo Method(A-Scan)
KS D 0250 : 2001	Ultrasonic examination for steel pipes and tubes	Pulse Echo Method(A-Scan)

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
KS D 0252 : 2014	Ultrasonic examination for arc welded steel pipes	Pulse Echo Method(A-Scan)
KS B 0839 : 2006	Methods and acceptance criteria of ultrasonic examination for gas pressure welds of reinforcing deformed bar	Pulse Echo Method(A-Scan)
KS D ISO 5948 : 2002	Railway rolling stock material – Ultrasonic acceptance testing	Pulse Echo Method(A-Scan)
MIL-STD-2175 : 1993	Castings, classification and inspection : Radiographic examination, Ultrasonic examination, Magnetic particle examination, Liquid penetrant examination	RT : (140 ~ 300) kV UT : Pulse Echo Method (A-Scan) MT : Yoke Method (Fluorescent, Non Fluorescent) PT : Solvent Removable Method (Fluorescent, Non Fluorescent)
MIL-STD-1907 Notice5-14	Inspection, Liquid Penetrant and Magnetic Particle, Soundness Requirements for Materials, Parts and Weldments	Yoke Method (Fluorescent, Non Fluorescent), Solvent Removable Method(Fluorescent, Non Fluorescent)

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
SAE AMS-A-2175 Rev.B-10	Castings, classification and inspection : Radiographic examination, Ultrasonic examination, Magnetic particle examination, Liquid penetrant examination	RT : (140 ~ 300) kV UT : Pulse Echo Method(A-Scan) MT : Yoke Method (Fluorescent, Non Fluorescent) PT : Solvent Removable Method (Fluorescent, Non Fluorescent)
ASME Sec. V : 2015	Nondestructive examination : Radiographic examination-article2, Ultrasonic examination methods for inservic inspection-article4, Ultrasonic examination methods for materials and fabrication-article5, Liquid penetrant examination-article6, Magnetic particle examination-article7	RT : (140 ~ 300) kV UT : Pulse Echo Method(A-Scan) MT : Yoke Method (Fluorescent, Non Fluorescent) PT : Solvent Removable Method (Fluorescent, Non Fluorescent)
ASME Sec. IX : 2015	Welding, brazing, and Fuing qualifications : Radiographic examination, Liquid penetrant examination	RT : (140 ~ 300) kV PT : Solvent Removable Method (Fluorescent, Non Fluorescent)
ASTM A388-16	Standard practice for ultrasonic examination of Steel Forgings	Pulse Echo Method(A-Scan)

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
ASTM A435-90	Standard specification for straight beam ultrasonic examination of steel plates	Pulse Echo Method(A-Scan)
ASTM A609-12	Standard practice for castings, carbon, low-alloy, and martensitic stainless steel, ultrasonic examination thereof	Pulse Echo Method(A-Scan))
ASTM E94-04	Standard guide for radiographic examination	(140 ~ 300) kV
ASTM E155-15	Standard reference radiographs for inspection of aluminium and magnesium castings	(140 ~ 300) kV
ASTM E164-13	Standard Practice for Contact Ultrasonic Testing of Weldments	Pulse Echo Method(A-Scan)
ASTM E165-12	Standard Practice for Liquid Penetrant Examination for General Industry	Solvent Removable Method (Fluorescent, Non Fluorescent)
ASTM E192-15	Standard reference radiographs of Investment steel casting for aerospace applications	(140 ~ 300) kV
ASTM E272-15	Standard reference radiographs for high-strength copper-base and nickel-copper alloy castings	(140 ~ 300) kV
ASTM E310-15	Standard reference radiographs for tin bronze castings	(140 ~ 300) kV
ASTM E446-15	Standard reference radiographs for steel castings up to 2 in. [50.8 mm] in thickness	(140 ~ 300) kV

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
ASTM E505-15	Standard reference radiographs for inspection of aluminium and magnesium die castings	(140 ~ 300) kV
ASTM E709-15	Standard guide for magnetic particle testing	Yoke Method (Fluorescent, Non Fluorescent)
ASTM E1032-12	Standard test method for radiographic examination of weldments	(140 ~ 300) kV
ASTM E1220-16	Standard practice for visible penetrant testing using Solvent -removable process	Solvent Removable Method (Fluorescent, Non Fluorescent)
ASTM E1444-16	Standard practice for magnetic particle testing	Yoke Method (Fluorescent, Non Fluorescent)
ASTM E1742-12	Standard Practice for Radiographic Examination	(140 ~ 300) kV
ASTM E1417-16	Standard Practice for Liquid Penetrant Testing	Solvent Removable Method (Fluorescent, Non Fluorescent)
AWS D1.1 : 2010	Structural welding code-steel : Radiographic examination, Ultrasonic examination, Magnetic particle examination, Liquid penetrant examination	RT : (140 ~ 300) kV, UT : Pulse Echo Method(A-Scan) MT : Yoke Method (Fluorescent, Non Fluorescent)

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
		PT : Solvent Removable Method (Fluorescent, Non Fluorescent)
AWS D1.5 : 2015	Bridge welding code : Radiographic examination, Ultrasonic examination, Magnetic particle examination, Liquid penetrant examination	RT : (140 ~ 300) kV, UT : Pulse Echo Method(A-Scan) MT : Yoke Method (Fluorescent, Non Fluorescent) PT : Solvent Removable Method (Fluorescent, Non Fluorescent)
ISO 5948 : 1994	Railway rolling stock material -ultrasonic acceptance testing	Pulse Echo Method(A-Scan)
JIS Z 2320-1 : 2017	Non-destructive testing -- Magnetic particle testing -- Part 1: General principles	Yoke Method (Fluorescent, Non Fluorescent)
JIS Z 2320-2 : 2017	Non-destructive testing -- Magnetic particle testing -- Part 2: Detection media	Yoke Method (Fluorescent, Non Fluorescent)
JIS Z 2320-3 : 2017	Non-destructive testing -- Magnetic particle testing -- Part 3: Equipment	Yoke Method (Fluorescent, Non Fluorescent)
JIS G 0581 : 1999	Methods of radiographic examination for steel castings	(140 ~ 300) kV
JIS G 0584 : 2014	Ultrasonic examination for arc welded steel pipes	Pulse Echo Method(A-Scan)
JIS G 0587 : 2007	Methods of ultrasonic examination for carbon steel and low alloy steel forgings	Pulse Echo Method(A-Scan)

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
JIS G 0901 : 2010	Classification of structural rolled steel plate and wide flat for building by ultrasonic test	Pulse Echo Method(A-Scan)
JIS H 0522 : 1999	Methods of radiographic test and classification by radiographs of aluminium castings	(140 ~ 300) kV
JIS Z 2343-1 : 2001	Non-destructive testing -- Penetrant testing -- Part 1 : General principles -- Method for liquid penetrant testing and classification of the penetrant indication	Solvent Removable Method (Fluorescent, Non Fluorescent)
JIS Z 2344 : 1993	General rule of ultrasonic testing of metals by pulse echo technique	Pulse Echo Method(A-Scan)
JIS Z 3060 : 2015	Methods for ultrasonic examination for welds of ferritic steel	Pulse Echo Method(A-Scan)
JIS Z 3062 : 2014	Method and acceptance criteria of ultrasonic examination for gas pressure welds of deformed steel bars for concrete reinforcement	Pulse Echo Method(A-Scan)
JIS Z 3104 : 1995	Methods of radiographic examination for welded joints in steel	(140 ~ 300) kV
JIS Z 3105 : 2003	Methods of radiographic examination for welded joints in aluminium	(140 ~ 300) kV
JIS Z 3106 : 2001	Methods of radiographic examination for welded joints in stainless steel	(140 ~ 300) kV
JIS Z 3108 : 1986	Methods of radiographic test for circumferential butt welds of aluminium pipes and tubes	(140 ~ 300) kV

Korea Laboratory Accreditation Scheme

No. KT011

05.001 Metals and Metal Products

Test Method	Standard designation	Test range
JIS Z 3109 : 1988	Method of radiographic testing for aluminium T-welds	(140 ~ 300) kV
NAS 1514 Rev.2-11	Radiographic Standard For Classification Of Fusion Weld Discontinuities	(140 ~ 300) kV, Material thick. (0.2 ~ 40) mm
SAE AMS-A-21180 Rev.B-11	Aluminum-Alloy Casting, High Strength	(140 ~ 300) kV

09. Biological Test

09.002 Microbiological Test

Test Method	Standard designation	Test range
Notice No. 2016-154 of the Ministry of Food and Drug Safety	7. General test method	
	4.5 Standard plate count	0 CFU/mL(g)
	4.7 coliforms	Qualitative/0 CFU/mL(g)
	4.8 E.coli	Qualitative/0 CFU/mL(g)
	4.9 Lactic acid bacteria counts	0 CFU/mL(g)
	4.10 Yeast and mold count	0 CFU/mL(g)
	4.11 Salmonella spp.	Qualitative
	4.12 Staphylococcus aureus	Qualitative/0 CFU/mL(g)
	4.13 Vibrio parahaemolyticus	Qualitative/0 CFU/mL(g)
	4.15 Listeria monocytogenes	Qualitative
	4.18 Bacillus cereus	Qualitative/0 CFU/mL(g)
KS I 3206 : 2008	Testing method for industrial water	
	65. Microbiological test	
	65.2 Standard plate count	0 CFU/mL
	65.3 Standard plate count - Membrane	0 CFU/L

Korea Laboratory Accreditation Scheme

No. KT011

09.002 Microbiological Test

Test Method	Standard designation	Test range
	Filtration Method 65.4 Coliforms	-
KS I 3217 : 2008	Industrial wastewater test method 71. Microbiological test 71.2 Standard plate count 71.3 <i>E. coli</i>	0 CFU/mL 0 CFU/mL
KS I ISO 11731 : 2014	Detection and enumeration of <i>Legionella</i>	-
Notice No. 2017-3 of the Ministry of Food and Drug Safety	Regulations concerning cosmetic safety standards [asterisk 4] 10. Microbial limit Total aerobic viable count (bacterial count) Total aerobic viable count (yeasts and molds count) Escherichia coli Pseudomonas aeruginosa Staphylococcus aureus	10 CFU/g (mL) 10 CFU/g (mL) Non-detection Non-detection Non-detection
Notice No. 2014-194 of the Ministry of Food and Drug Safety	Korean Pharmacopoeia 11 [asterisk 5] 12. Microbial limit test Total aerobic microbial count Total combined yeasts and molds count Bile-tolerant gram-negative bacteria Escherichia coli Salmonella Pseudomonas aeruginosa Staphylococcus aureus Clostridia Candida albicans	Qualitative 10 CFU/g (mL) 10 CFU/g (mL) Qualitative Qualitative Qualitative Qualitative Qualitative Qualitative Qualitative
The Ministry of Environment Notice No. 2015-214	Standard methods for the examination of environmental pollution(drinking water) ES 05701.1b Total Colony Counts in 21 °C-Pour Plate Method ES 05702.1a Total Colony Counts in	0 CFU/mL 0 CFU/mL

Korea Laboratory Accreditation Scheme

No. KT011

09.002 Microbiological Test

Test Method	Standard designation	Test range
	35 °C-Pour Plate Method	
	ES 05703.1a Total Coliforms-Multiple Tube Fermentation Technique	Qualitative
	ES 05703.2a Total Coliforms-Membrane Filtration Method	Qualitative
	ES 05703.3a Total Coliforms-Enzyme Substrate Method	Qualitative
	ES 05704.1b Fecal Coliforms-Multiple Tube Fermentation Technique	Qualitative
	ES 05705.1b <i>Escherichia coli</i> -Multiple Tube Fermentation Technique	Qualitative
	ES 05705.2b <i>Escherichia coli</i> -Membrane Filtration Method	Qualitative
	ES 05705.3b <i>Escherichia coli</i> -Enzyme Substrate Method	Qualitative
	ES 05706.1b Fecal <i>Streptococcus</i> -Multiple Tube Method	Qualitative
	ES 05707.1b <i>Pseudomonas aeruginosa</i> -Multiple Tube Method	Qualitative
	ES 05708.1b <i>Clostridium perfringens</i> -Multiple Tube Method	Qualitative
	ES 05709.1b <i>Salmonella</i> -Multiple Tube Method	Qualitative
	ES 05709.2b <i>Salmonella</i> -Membrane Filtration Method	Qualitative
	ES 05710.1b <i>Shigella</i> -Multiple Tube Method	Qualitative
	ES 05710.2b <i>Shigella</i> -Membrane Filtration Method	Qualitative
The Ministry of Environment Notice No. 2017-4	Standard methods for the examination of environmental pollution(water pollution) ES 04701.1c Total coliform-Membrane Filtration Method ES04701.2c Total coliform-Multiple Tube	0 CFU/100 mL 0 CFU/100 mL

Korea Laboratory Accreditation Scheme

No. KT011

09.002 Microbiological Test

Test Method	Standard designation	Test range
	Fermentation Method ES04701.3b Total coliform-Pour Plate Method ES04702.1c Fecal coliform -Membrane Filtration Method ES 04702.2c Fecal coliform-Multiple Tube Fermentation Method ES 04703.1c <i>E. coli</i> -Quantitative Enzyme Substrate Method	0 CFU/mL 0 CFU/100 mL 0 CFU/100 mL 0 CFU/100 mL
USP 39 : 2016	Microbiological Tests <71> Sterility Tests <61> Microbiological examination of nonsterile products: Microbial enumeration tests Total aerobic microbial count Total combined yeasts and molds count <62> Microbiological examination of nonsterile products: Tests for specified microorganisms Bile-tolerant gram-negative bacteria Escherichia coli Salmonella Pseudomonas aeruginosa Staphylococcus aureus Clostridia Candida albicans	Qualitative 10 CFU/g(mL) 10 CFU/g(mL) Qualitative Qualitative Qualitative Qualitative Qualitative Qualitative
ISO 11737-1 : 2006	Sterilization of medical devices - Microbiological method Part 1:Determination of a population of microorganisms on products	0 CFU/unit
ISO 18416 : 2015	Cosmetics - Microbiology - Detection of <i>Candida albicans</i>	Qualitative
ISO 21149 : 2006	Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria	10 CFU/g(mL)
ISO 21150 : 2015	Cosmetics - Microbiology - Detection of <i>Escherichia coli</i>	Qualitative
ISO 22717 : 2015	Cosmetics - Microbiology - Detection of	Qualitative

Korea Laboratory Accreditation Scheme

No. KT011

09.002 Microbiological Test

Test Method	Standard designation	Test range
	<i>Pseudomonas aeruginosa</i>	
ISO 22718 : 2015	Cosmetics - Microbiology - Detection of <i>Staphylococcus aureus</i>	Qualitative
ASTM G 21-15	Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	Rating 0
ISO 22196 : 2011	Measurement of antibacterial activity on plastics and other non-porous surfaces	-
JIS Z 2801 : 2012	Antimicrobial products - Test for antimicrobial activity and efficacy	-

09.008 Cell culture and GMO

Test Method	Standard designation	Test range
ISO 10993-5 : 2009	Biological evaluation of medical device - Tests for in vitro cytotoxicity	Grade 0~4