



ACCREDITATION CERTIFICATE

Testing Laboratory

No. ATL 0054

GEO-CHEM MIDDLE EAST – CPS

P.O. BOX 5778. PLOT NO. 18-0, AFFECTION PLAN # 597-22, EBC WAREHOUSE # 6, DUBAI INVESTMENT PARK II, DUBAI, UNITED ARAB EMIRATES.

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International Standard ISO/IEC 17025:2017: "General requirements for the competence of testing and calibration laboratories"

A laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF communiqué, April 2017).

This accreditation demonstrates technical competence for a defined scope, as detailed in and at the locations specified in the scope of accreditation, the accreditation scope to this certificate is an essential accreditation document and from time to time may be revised and reissued by the GCC Accreditation Center. The most recent issue of the scope of accreditation which bears the same accreditation number as this certificate, is available from the GAC website www.gcc-accreditation.org

The accreditation is subject to continuing conformity with GAC Accreditation requirements and the status of accreditation can be checked in the GAC's website to confirm the validity of this accreditation.

Issue Date:

28th October 2019

Internal project number: AC 0028-3
Initial Accreditation Date: 29-10-2017

Director General, GCC Accreditation Center.

AC 10.10 v1.3



10.6 Scope of Accreditation

Issue No: 04/ Issue Date: 28-10-2019
File Manager: Atta Subhan



ACCREDITED
TESTING
ISO/IEC 17025:2017
No. ATL 0054

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Geo-Chem Middle East CPS – Laboratory	
Address: Geo-Chem Middle East (CPS) Plot No. 18-0, Affection Plan # 597-22, EBC Warehouse # 6, Dubai Investment Park II, P.O.Box 5778. Dubai. United Arab Emirates.	Contact: Mr. Manish Kumar Tel: +971 4 8820527 Fax: +971 4 886 7401 Email: manish.k@geochemglobal.com Web Address: www.geochem.ae

Locations where testing activities covered by the above Accreditation Standard are undertaken

1- **address:** Plot No. 18-0, Affection Plan # 597-22, EBC Warehouse # 6, Dubai Investment Park II, P.O. Box 5778. Dubai. United Arab Emirates

For the following scope:

Version: 3.6

Date: 24th July 2019

Approved by: Brahim Houla

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Scope:

7. Chemical Testing

7.46 Textiles and related products

7.38 Leather

13. Mechanical Testing

13.26 Textiles and related products

13.30 Leather and leather products

13.50 Toys

Scope details are as follows:

Textile Scope

Version: 3.6

Date: 24th July 2019

Approved by: Brahim Houla

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TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Remarks
Mechanical Test	Textile Fabric and Garment	Textiles — Tensile fabrics — Part 2: Determination of maximum force using the grab method	ISO 13934-2: 2014	
Mechanical Test	Textile Fabric and Garment	Textiles — Tensile fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method	ISO 13934-1: 2013	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D5034: 2017	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)	ASTM D5035-11 (2019)	
Mechanical Test	Textile Fabric and Garment	Textiles — Tear properties of fabrics — Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)	ISO 13937-2: 2000	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)	ASTM D2261: 2017	
Mechanical Test	Textile Fabric and Garment	Textiles -- Determination of the slippage resistance of yarns at a seam in woven fabrics -- Part 2: Fixed load	ISO 13936-2: 2004	
Mechanical Test	Textile Fabric and Garment	Textiles -- Determination of the slippage resistance of yarns at a seam in woven fabrics -- Part 1: Fixed seam	ISO 13936-1: 2004	

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Mechanical Test	Textile Fabric and Garment	Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 2: Determination of maximum force to seam rupture using	ISO 13935-2: 2014	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics	ASTM D3775: 2017	
Mechanical Test	Textile Fabric and Garment	Textiles - Woven fabrics - Construction - Methods of analysis - Part 2: Determination of number of threads per unit length	ISO 7211-2: 1984	
Mechanical Test	Textile Fabric and Garment	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric	ASTM D3776/D3776M-17 Option C	
Mechanical Test	Textile Fabric and Garment	Textiles - Woven fabrics - Determination of mass per unit length and mass per unit area	ISO 3801: 1977 Method 5	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics	ASTM D 4970/D 4970M: 2016	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: RTPT	ASTM D3512/D3512M-10 (2016)	
Mechanical Test	Textile Fabric and Garment	Textiles -- Determination of fabric propensity to surface fuzzing and to pilling -- Part 1: Pilling box method	ISO 12945-1: 2001	
Mechanical Test	Textile Fabric and Garment	Textiles -- Determination of fabric propensity to surface fuzzing and to pilling -- Part 2: Modified Martindale method	ISO 12945-2: 2000	

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Mechanical Test	Textile Fabric and Garment	Textiles -- Determination of the abrasion resistance of fabrics by the Martindale method -- Part 1: Martindale	ISO 12947-1: 2016	
Mechanical Test	Textile Fabric and Garment	Textiles -- Determination of the abrasion resistance of fabrics by the Martindale method -- Part 2: Determination of specimen breakdown	ISO 12947-2: 2016	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)	ASTM D4966: 2016	
Mechanical Test	Textile Fabric and Garment	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.	16 CFR 1500.49	
Mechanical Test	Textile Fabric and Garment	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.	16 CFR 1500.48	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Bow and Skew in Woven and Knitted Fabrics	ASTM D3882: 2016	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Width of Textile Fabric	ASTM D3774: 2018	
Mechanical Test	Textile Fabric and Garment	Textiles — Fabrics — Determination of width and length	ISO 22198: 2006	
Mechanical Test	Textile Garments & Drawstrings	Safety Of Children's Clothing – Cords And Drawstrings On Children's Clothing – Specifications	BS EN 14682: 2014	
Mechanical Test	Textile Garments & Drawstrings	Standard Safety Specification for Drawstrings on Children's Upper Outerwear	ASTM F 1816: 1997 (2018)	

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Mechanical Test	Textile Fabric and Garment	Standard Test Method for Bursting Strength of Textile Fabrics— Diaphragm Bursting Strength Tester Method	ASTM D 3786 / D 3786 M: 2018	
Mechanical Test	Textile Fabric and Garment	Textiles -- Bursting properties of fabrics -- Part 1: Hydraulic method for determination of bursting strength and bursting distension	ISO 13938-1: 1999 (Except Mean Height at Burst)	
Mechanical Test	Coated Leather Materials	Resistance of finish films on upper leather to peeling and delamination	Ref. SATRA TM 148: 1997	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products	Footwear – Ageing conditioning	BS EN 12749: 1999	
Mechanical Test	Leather and Leather Product	Footwear -- Ageing conditioning	ISO 20870: 2017	
Mechanical Test	Footwears, Footwears Materials, Belt Materials, Zipper	Resistance of slide fasteners to repeated opening and closing	Ref. SATRA TM 50: 2018 Method 2	
Chemical Test	Textile Fabric and Garment	Textiles - Tests for colour fastness -- Part C06: Colour fastness to domestic and commercial laundering	ISO 105 C06: 2010	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C10: Colour fastness to washing with soap or soap and soda	ISO 105 C10: 2006	
Chemical Test	Textile Fabric and Garment	Textiles — Tests for colour fastness — Part C08: Color fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low-temperature bleach activator	ISO 105 C08: 2010	

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Chemical Test	Textile Fabric and Garment	Colorfastness to Laundering: Accelerated	AATCC 61: 2013	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C01: Colour fastness to washing: Test 1	ISO 105 C01: 1989	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C02: Colour fastness to washing: Test 2	ISO 105 C02: 1989	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C03: Colour fastness to washing: Test 3	ISO 105 C03: 1989	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C04: Colour fastness to washing: Test 4	ISO 105 C04: 1989	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C05: Colour fastness to washing: Test 5	ISO 105 C05: 1989	
Chemical Test	Textile Fabric and Garment	Colorfastness to Crocking: Crockmeter Method	AATCC 8: 2016	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part X12: Colour fastness to rubbing	ISO 105 X12: 2016	
Chemical Test	Textile Fabric and Garment	Colorfastness to Perspiration	AATCC 15: 2013	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part E04: Colour fastness to perspiration	ISO 105 E04: 2013	
Chemical Test	Textile Fabric and Garment	Colorfastness to Water	AATCC 107: 2013	
Chemical Test	Textile Fabric and Garment	Textiles — Tests for colour fastness — Part E01: Colour fastness to water	ISO 105 E01: 2013	
Chemical Test	Textile Fabric and Garment	Textiles - Tests for colour fastness – Part NO1: Colour fastness to bleaching: Hypochlorite	ISO 105 N01: 1993	

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Chemical Test	Textile Fabric and Garment	Colorfastness to Laundering: Accelerated	AATCC 61-5A: 2013	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part N02: Colour fastness to bleaching: Peroxide	BS EN ISO 105 N02: 1993	
Chemical Test	Textile Fabric and Garment	Colorfastness to Bleaching with Hydrogen Peroxide	AATCC 101: 2013	
Chemical Test	Textile Fabric and Garment	Colorfastness to Water: Chlorinated Pool	AATCC 162: 2011	
Chemical Test	Textile Fabric and Garment	Textiles — Tests for colour fastness -- Part E03: Colour fastness to chlorinated water (swimming-bath water)	ISO 105 E03: 2010	
Chemical Test	Textile Fabric and Garment	Colorfastness to Water: Sea	AATCC 106: 2013	
Chemical Test	Textile Fabric and Garment	Textiles — Tests for colour fastness — Part E02: Colour fastness to Sea Water	ISO 105 E02: 2013	
Chemical Test	Textile Fabric and Garment	Colorfastness to Heat: Hot Pressing	AATCC 133: 2013	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part X11: Colour fastness to hot pressing	ISO 105 X11: 1994	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part X05: Colour fastness to organic solvents	ISO 105 X05: 1994	
Chemical Test	Textile Fabric and Garment	Determination of the colourfastness of articles for common use - Part 1: Test with artificial saliva	DIN 53160-1: 2002	
Chemical Test	Textile Fabric and Garment	Determination of the colourfastness of articles for common use - Part 2: Test with artificial sweat	DIN 53160-2: 2002	

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Chemical Test	Textile Fabric and Garment	Textiles — Quantitative chemical analysis — Part 1: General principles of testing	ISO 1833-1: 2006	
Chemical Test	Textile Fabric and Garment	Fibre Analysis - Qualitative	AATCC 20: 2018	
Chemical Test	Textile Fabric and Garment	Fibre Analysis - Quantitative	AATCC 20 A: 2018	
Chemical Test	Textile Fabric and Garment	Textiles — Quantitative chemical analysis — part 5: mixtures of viscose, cupro or modal and cotton fibres (method using sodium zincate)	ISO 1833-5: 2006	
Chemical Test	Textile Fabric and Garment	Textiles — Quantitative chemical analysis — part 7: mixtures of polyamide and certain other fibres (method using formic acid)	ISO 1833-7: 2017	
Chemical Test	Textile Fabric and Garment	Textiles — Quantitative chemical analysis — Part 11: Mixtures of cellulose and polyester fibres (method using sulfuric acid)	ISO 1833-11: 2017	
Chemical Test	Textile Fabric and Garment	Textiles — Quantitative chemical analysis — Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastanes and certain other fibres (method using dimethylformamide)	ISO 1833-12: 2019	
Chemical Test	Textile Fabric and Garment	pH of the Water-Extract from Wet Proceeded Textiles	AATCC 81: 2016	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of pH of aqueous extract	ISO 3071: 2005	

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Chemical Test	Textile Fabric and Garment	Textiles -- Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change	ISO 3759: 2011	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of dimensional change in washing and drying	ISO 5077: 2007	
Chemical Test	Textile Fabric and Garment	Textiles -- Domestic washing and drying procedures for textile testing	ISO 6330: 2012	
Chemical Test	Textile Fabric and Garment	Dimensional Changes of Garments after Home Laundering	AATCC 150: 2018	
Chemical Test	Textile Fabric and Garment	Dimensional Changes of Fabrics after Home Laundering	AATCC 135: 2018	
Chemical Test	Textile Fabric and Garment	Appearance of Apparel and Other Textile End Products after Repeated Home Laundering	AATCC 143: 2018	
Chemical Test	Textile Fabric and Garment	Smoothness Appearance of Fabrics after Repeated Home Laundering	AATCC 124: 2018	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of spirality after laundering -- Part 1: Percentage of wale spirality change in knitted	ISO 16322-1: 2005	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of spirality after laundering -- Part 2: Woven and knitted fabrics	ISO 16322-2: 2005	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of spirality after laundering -- Part 3: Woven and knitted garments	ISO 16322-3: 2005	
Chemical Test	Textile Fabric and Garment	Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering	AATCC 179: 2019	
Chemical Test	Textile Fabric and Garment	Smoothness of Seams in Fabrics after Repeated Home Laundering	AATCC 88B: 2018	

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Chemical Test	Textile Fabric and Garment	Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering	AATCC 172: 2018	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of formaldehyde -- Part 1: Free and hydrolysed formaldehyde (water extraction	ISO 14184-1: 2011	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of formaldehyde -- Part 2: Released formaldehyde (vapour absorption method)	ISO 14184-2: 2011	
Chemical Test	Textile Fabric and Garment	Formaldehyde Release from Fabric, Determination of- Sealed Jar Method	AATCC 112: 2014	
Chemical Test	Textile Fabric and Garment	Soil Release: Oily Stain Release Method	AATCC 130: 2018	
Chemical Test	Textile Fabric and Garment	Oil Repellency: Hydrocarbon Resistance Test	AATCC 118: 2013	
Chemical Test	Metallic Accessories	Atmospheric sulphide tarnishing and salt water corrosion	Ref. SATRA TM 310: 1992 Method 2	
Chemical Test	Metallic Accessories	Footwear -- Test Methods For Accessories: Metallic Accessories - - Corrosion Resistance	ISO 22775: 2004 Method 2	
Chemical Test	Textile Fabric and Garment	Colorfastness to Water Spotting	AATCC 104: 2014	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part E07: Colour fastness to spotting: Water	ISO 105 E07: 2010	
Chemical Test	Textile Fabric and Garment	Absorbency of Textiles	AATCC 79: 2018	
Chemical Test	Leather & Leather Products Containing other	Colour fastness to water spotting of leathers, textiles and coated fabrics	Ref. SATRA TM 185: 1995	
Chemical Test	Leather & Leather Products Containing other	Leather -- Tests for colour fastness -- Colour fastness to water spotting	ISO 15700: 1998	

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Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part D01: Colour fastness to drycleaning using perchloroethylene solvent	ISO 105 D01: 2010	
Chemical Test	Leather & Leather Products Containing other Accessories	Colour fastness to rubbing - reciprocating method	Ref. SATRA TM 173: 1995	
Chemical Test	Leather & Leather Products	Leather -- Tests for colour fastness -- Colour fastness to cycles of to-and-fro rubbing	ISO 11640: 2018	
Chemical Test	Leather & Leather Products	Footwear -- Test methods for uppers, linings and insoles -- Colour fastness to rubbing	ISO 17700: 2019 Method A	
Chemical Test	Leather & Leather Products	Leather -- Tests for colour fastness -- Colour fastness to crocking	ISO 20433: 2012	
Chemical Test	Containing other Accessories	Colour fastness to rubbing - crockmeter test	Ref. SATRA TM 167: 2017	
Chemical Test	Containing other Accessories	Standard Test Method for Colorfastness of Crocking of	ASTM D 5053-2003 (2015)	
Mechanical Test	Leather & Leather Products Containing other Accessories	Standard Test Method for Flexibility and Adhesion of Finish on Leather	ASTM D 6182: 2015	
Mechanical Test		Flexing resistance of upper materials – Bally flexometer	Ref. SATRA TM 55: 1999	
Mechanical Test		Footwear -- Test methods for uppers and lining -- Flex resistance	ISO 17694: 2016	
Mechanical Test		Leather -- Determination of flex resistance -- Part 1: Flexometer method	ISO 5402-1: 2017	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part X18: Assessment of the potential to phenolic yellowing of	ISO 105 X18: 2007	

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Chemical Test	Textile Fabric and Garment	Dimensional Changes on Drycleaning in Perchloroethylene: Machine Method	AATCC 158: 2016	
Chemical Test	Textile Fabric and Garment	Textiles — Professional care, drycleaning and wet cleaning of fabrics and garments — Part 2: Procedure for testing performance when cleaning and	ISO 3175-2: 2017	
Mechanical Test	Textile Fabric and Garment	Standard Test Methods for Stretch Properties of Fabrics Woven from Stretch Yarns	ASTM D 3107-07: 2019	
Mechanical Test	Textile Fabric and Garment	Standard Test Method for Stretch Properties of Knitted Fabrics Having Low Power	ASTM D 2594-04: 2016	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part C10: Colour fastness to washing with soap or soap and soda	SASO ISO 105 C10: 2007	
Chemical Test	Textile Fabric and Garment	Textiles -- Tests for colour fastness -- Part X05: Colour fastness to organic solvents	SASO ISO 105 X05: 2006	
Chemical Test	Textile Fabric and Garment	Footwear -- Test Methods for Accessories: Metallic Accessories -- Corrosion Resistance	SASO ISO 22775: 2007, Method 2	
Chemical and mechanical Tests	Textile Fabric and Garment	Method of Testing Men's Workwear Fabrics Clause 14. Determination of Colour Fastness to Perspiration	SASO 1630: 2002, Cl. 14 & Cl. 16	
Mechanical test	Textile Fabric and Garment	Textiles - Bursting properties of fabrics – Part 1: Hydraulic method for determination of bursting strength and bursting distension	SASO ISO 13938-1: 2006	
Chemical Test	Textile Fabric and Garment	Methods of Testing Cotton Terry Towels Clause 19. Determination of Water Absorbency Time	SASO 1626: 2002; Cl. 6, Cl. 15, Cl. 16 & Cl. 19	

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Chemical Test	Textile Fabric and Garment	textiles -- Determination of dimensional change in washing and drying	SASO ISO 5077: 2014	
Mechanical Test	Textile Fabric and Garment	Methods of testing polyester cotton fabric (65/35) Clause 7: Determination of Mass Clause 13. Determination of Dimensional Stability on Heating	SASO 383: 1996, Cl. 7 & Cl. 13	
Mechanical test	Textile Fabric and Garment	Textiles -- Tear properties of fabrics -- Part 1: Determination of tear force using ballistic pendulum	ISO 13937-1: 2000	
Mechanical test	Textile Fabric and Garment	Textiles -- Tear properties of fabrics -- Part 1: Determination of tear force using ballistic pendulum	SASO ISO 13937-1: 2006	
Mechanical test	Textile Fabric and Garment	<u>Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus</u>	ASTM D 1424: 2013	
Mechanical test	Textile Fabric and Garment	textiles - tear properties of fabrics – part 2: determination of tear force of trouser-shaped test specimens (single tear method)	SASO ISO 13937-2: 2006	
Physical test	Textile fabric and garment	Textiles -- Woven fabrics -- Construction -- Methods of analysis -- Part 1: Methods for the presentation of a weave diagram and plans for drafting, denting and lifting	ISO 7211-1: 1984	
Physical test	Textile Fabric and Garment	Textiles -- Woven fabrics -- Construction -- Methods of analysis -- Part 1: Methods for the presentation of a weave diagram and plans for drafting, denting and lifting	SASO ISO 7211-1: 2006	

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Physical test	Textile fabric and garment	Textiles- fabrics -determination of mass per unit area using small samples	BS EN 12127: 1998	
Physical test	Textile Fabric and Garment	textiles - woven fabrics - determination of mass per unit length and mass per unit area	SASO ISO 3801: 2001, Method 5	
Physical test	Textile Fabric and Garment	Methods of testing acrylic blankets Clause 7: Determination of Mass per Unit Area	SASO 999: 1997, Excluded Cl. 20	
Physical test	Textile fabric and garment	Textiles — Fabrics — Determination of width and length	SASO ISO 22198: 2015	
Physical test	Textile fabric and garment	woven fabrics-Determination of linear density of yarn removed from fabric	SASO ISO 7211-5: 2006	
Physical test	Textile fabric and garment	woven fabrics-Determination of linear density of yarn removed from fabric	ISO 7211-5: 1984	
Physical test	Textile fabric and garment	Methods of testing cotton knitted fabrics for underwear	SASO 1170: 1997	
Physical test	Textile fabric and garment	Textile floor-coverings: Determination of number of tufts and/or loops per unit length and per unit area	GSO 537: 1994	
Physical test	Textile Fabric and Garment	Textile floor - coverings - determination of number of tufts and/or loops per unit length and per unit area.	SASO GSO 537: 1994	
Physical test	Textile fabric and garment	Standard for the flammability of clothing textiles	16CFR 1610: 2017	
Physical test	Textile fabric and garment	Standard Test Method for Flammability of Apparel Textiles	ASTM D 1230: 2017	
Chemical Test	Textile Fabric and Garment	Textiles -- Quantitative chemical analysis Part 1: General Principles of testing	SASO ISO 1833-1: 2007	

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Chemical Test	Textile Fabric and Garment	Textiles -- Quantitative chemical analysis Part 4: Mixtures of certain protein and certain other fibres (method using hypochlorite)	SASO ISO 1833-4: 2007	
Chemical Test	Textile Fabric and Garment	Part 5: Mixtures of viscose, cupro or modal and cotton fibres (method using sodium zincate)	SASO ISO 1833-5: 2007	
Chemical Test	Textile Fabric and Garment	Part 7: Mixtures of polyamide and certain other fibres (method using formic acid)	SASO ISO 1833-7: 2007	
Chemical Test	Textile Fabric and Garment	Part 11: Mixtures of cellulose and polyester fibres (method using sulfuric acid)	SASO ISO 1833-11: 2007	
Chemical Test	Textile Fabric and Garment	Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastanes and certain other fibres (method using dimethylformamide)	SASO ISO 1833-12: 2007	
Chemical Test	Textile Fabric and Garment	Textiles - Determination of formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction)	SASO ISO 14184-1: 2014	
Chemical Test	Textile Fabric and Garment	Textiles -- Determination of pH of aqueous extract	SASO ISO 3071: 2014	
Chemical Test	Textile Fabric and Garment	Textiles-tests colour fastness-colour fastness to rubbing: organic solvents	SASO 2331: 2005	
Physical Test (Visual)	Textile Fabric and Garment	Identification labels for textile products	SASO 1173/GS 863: 1997	
Physical Test (Visual)	Textile Fabric and Garment	Textiles - Care labelling code using symbols	SASO ISO 3758: 2014	

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Physical Test (Visual)	Textile Fabric and Garment	Acrylic blankets Clause 8: Marking	SASO 1000: 2004, Cl. 8	
Physical Test (Visual)	Textile Fabric and Garment	Tufted cut pile textile floor covering for domestic use Clause 5: Marking	SASO 687: 1994, Cl. 5	
Physical Test (Visual)	Textile Fabric and Garment	Woven and knitted upholstery fabrics for domestic use Clause 7: Marking	SASO 1171: 1998, Cl. 7	
Physical Test (Visual)	Textile Fabric and Garment	Woven silk fabric Clause 6: Marking	SASO 784: 1994, Cl. 6	
Physical Test (Visual)	Textile Fabric and Garment	Cotton knitted fabrics for underwear Clause 6: Marking	SASO 1169: 1998, Cl. 6	
Physical Test (Visual)	Textile Fabric and Garment	Men's socks – Cotton and nylon socks Clause 6: Marking	SASO 2636: 2006, Cl. 6	
Physical Test (Visual)	Textile Fabric and Garment	Woven Woollen Blankets Clause 5: Marking & Labelling	SASO 559: 1989, Cl. 5	
Physical Test (Visual)	Textile Fabric and Garment	Bed sheets and pillowslips (50 / 50 cotton / polyester) for general use	SASO 1627: 1999, Cl. 6	
Mechanical test	Textile Fabric and Garment	Textile floor coverings – Determination of thickness of pile above the substrate	SASO GSO 536: 1994	
Mechanical test	Textile Fabric and Garment	Carpets – Determination of mass of effective pile per unit area that can be shorn away from the backing	SASO GSO 539: 1994	
Mechanical test	Textile Fabric and Garment	Carpets - Determination of tuft withdrawal force	SASO ISO 4919: 2014	

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Mechanical test	Textile Fabric and Garment	Cotton terry towels	SASO 1625: 1999	Excluded 5.2.1.5
Chemical test	Textile Fabric and Garment	Tests for colour fastness of textiles – C-methods for determination of colour fastness to perspiration	SASO GSO 1268: 2002	
Chemical test	Textile Fabric and Garment	Color fastness to Dry cleaning	AATCC 132: 2013	
Chemical test	Textile Fabric and Garment	Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	ISO 105 B02: 2014	
Chemical test	Textile Fabric and Garment	Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	SASO ISO 105 B02: 2014	
Chemical Test	Textile Fabric and Garment	Colourfastness to Light: Xenon-Arc	AATCC 16.3: 2014	
Mechanical test	Textile Fabric and Garment	Men's socks – Cotton and nylon socks Clause 4: Requirements	SASO 2636: 2006, Cl. 4 & Cl. 6	
Mechanical test	Textile Fabric and Garment	Men's socks- cotton and nylon socks	GSO 2261:2012; Cl. 4 and Cl. 6	
Mechanical test	Textile fabric and garment	<u>Standard Performance Specification for Towel Products for Institutional and Household Use</u>	ASTM D 5433: 2019; Cl. 7.1.1	
Chemical test	Textile Fabric and Garment	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing	SASO ISO 105 X12: 2005	
Mechanical test	Textile Fabric and Garment	Textiles - Tensile properties of fabrics – Part 1: Determination of maximum force and elongation at maximum force using the strip method	SASO ISO 13934-1: 2016	

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Chemical test	Textile Fabric and Garment	Textiles - Tests for colour fastness - Part D01: Colour fastness to drycleaning using perchloroethylene solvent	SASO ISO 105 D01: 2014	
Mechanical test	Textile Fabric and Garment	Standard Test Method for Failure in Sewn Seams of Woven Fabrics	ASTM D1683/D1683M-17: 2018	
Mechanical test	Textile Fabric and Garment	Woven fabrics - Measurement of length of pieces	SASO 1620: 1999	
Mechanical Test	Textile Fabric and Garment	Crease Retention in Fabrics after Home Laundering	AATCC 88C: 2018	
Mechanical Test	Textile Fabric and Garment	Textiles -- Professional care, dry-cleaning and wet cleaning of fabrics and garments -- Part 1: Assessment of performance after cleaning and finishing	ISO 3175-1: 2017	
Mechanical Test	Textile Fabric and Garment	Textiles -- Test method for assessing the smoothness appearance of seams in fabrics after cleansing	ISO 7770: 2009	
Mechanical Test	Textile Fabric and Garment	Textiles -- Test method for assessing the smoothness appearance of fabrics after cleansing	ISO 7768: 2009	
Mechanical Test	Textile Fabric and Garment	Textiles -- Test method for assessing the appearance of creases in fabrics after cleansing	ISO 7769: 2009	
Mechanical Test	Textile Fabric and Garment	Determination of elasticity of fabrics- Part 1: Strip tests	EN 14704-1: 2005	
Mechanical Test	Textile Fabric and Garment	Standard test method for Tension and Elongation of Elastic fabrics	ASTM D 4964: 2016	

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Mechanical Test	Textile Fabric and Garment	Standard for the Flammability of children's sleep wear: SIZES 0 THROUGH 6X (FF 3-71)	16 CFR 1615	
Mechanical Test	Textile Fabric and Garment	Standard For The Flammability Of Children's Sleepwear: Sizes 7 Through 14 (Ff 5-74)	16 CFR 1616	

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Leather/ Leather products/ Footwear/ Toys

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Remarks
Mechanical Test	Leather & Leather Products Containing Other Accessories	Leather — Physical and mechanical tests — Determination of thickness	ISO 2589: 2016	
			SASO ISO 2589: 2007	
		Test Method for Measuring Thickness of Leather Test Specimens	ASTM D1813: 13 (2017)	
		Thickness of leather and insole materials	Ref. SATRA TM 1: 2013	
		Determination of insole thickness	ISO 20344: 2011, Cl. 7.1	
		Determination of insole thickness	ISO 20345: 2011, Cl. 5.7.1	
		Determination of insole thickness	ISO 20346: 2014, Cl. 5.7.1	
		Determination of insole thickness	ISO 20347: 2012, Cl. 5.7.1	
		Determination of insole thickness	SASO ISO 20344: 2014, Cl. 7.1	
		Determination of insole thickness	SASO ISO 20345: 2014, Cl. 5.7.1	
		Determination of insole thickness	SASO ISO 20346: 2007, Cl. 5.7.1	
		Determination of insole thickness	SASO ISO 20347: 2014, Cl. 5.7.1	
Mechanical Test	Leather & Leather Products Containing Other Accessories	Leather — Physical and mechanical tests — Determination of tensile strength and percentage extension	ISO 3376: 2011	
		Leather — Physical and mechanical tests —	SASO ISO 3376: 2014	

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		Determination of tensile strength and percentage extension		
		Test Method for Breaking Strength of Leather by the Grab Method	ASTM D2208: 2016	
		Breaking strength and extension at break	Ref. SATRA TM 29: 2017	
		Footwear - Test methods for uppers - Tensile strength and elongation	ISO 17706: 2003	
			SASO ISO 17706: 2007	
		Determination of the tensile properties of the upper material (Only Split Leather)	ISO 20344: 2011, Cl. 6.4	
			ISO 20345: 2011, Cl. 5.4.4	
			ISO 20346: 2014, Cl. 5.4.4	
			ISO 20347: 2012, Cl. 5.4.4	
			SASO ISO 20344: 2014, Cl. 6.4	
			SASO ISO 20345: 2014, Cl. 5.4.4	
			SASO ISO 20346: 2007, Cl. 5.4.4	
			SASO ISO 20347: 2014, Cl. 5.4.4	
Mechanical Test	Leather & Leather Products Containing other Accessories	Leather — Physical and mechanical tests — Determination of tear load — Part 1: Single edge tear	ISO 3377-1: 2011	
			SASO ISO 3377-1: 2014	
		Footwear - Test methods for uppers, linings and insoles — Tear strength	ISO 17696: 2004	
			SASO ISO 17696: 2006	
		Rubber- or plastics-coated fabrics — Determination of tear	SASO ISO 4674-1: 2007 Method B	

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		resistance — Part 1: Constant rate of tear methods	ISO 4674-1: 2016 Method B	
Mechanical Test	Leather & Leather Products Containing other Accessories	Leather — Physical and mechanical tests — Determination of tear load — Part 2: Double edge tear	ISO 3377-2: 2016	
		Leather — Physical and mechanical tests — Determination of tear load — Part 2: Double edge tear	SASO ISO 3377-2: 2007	
		Test Method for Slit Tear Resistance of Leather	ASTM D2212: 2015	
		Tear strength - Baumann method	Ref. SATRA TM 162:2017	
		Determination of tear strength of the upper, lining and/or tongue	ISO 20344: 2011, Cl. 6.3	
			ISO 20345: 2011, Cl. 5.4.3	
			ISO 20346: 2014, Cl. 5.4.3	
			ISO 20347: 2012, Cl. 5.4.3	
			SASO ISO 20344: 2014, Cl. 6.3	
			SASO ISO 20345: 2014, Cl. 5.4.3	
			SASO ISO 20346: 2007, Cl. 5.4.3	
			SASO ISO 20347: 2014, Cl. 5.4.3	
Mechanical Test	Leather & Leather Products Containing other Accessories	Footwear - Test methods for uppers, lining and insoles — Steam strength	ISO 17697: 2016 Method B SASO ISO 17697: 2006 Method B	
		Measurement of the strength of stitched seams in upper and lining materials	Ref. SATRA TM 180: 2016	
Mechanical Test	Finished Leather and	Leather - Test for adhesion of finish	ISO 11644: 2009	

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	Coated Leather material		SASO ISO 11644: 2014	
Mechanical Test	Leather & Leather Products Containing Other Accessories	Determination of water penetration and water absorption for upper	ISO 20344: 2011, Cl. 6.13	
			ISO 20345: 2011, Cl. 6.3	
			ISO 20346: 2014, Cl. 6.3.1	
			ISO 20347: 2012, Cl. 6.3	
			SASO ISO 20344: 2014, Cl. 6.13	
			SASO ISO 20345: 2014, Cl. 6.3	
			SASO ISO 20346: 2007, Cl. 6.3.1	
			SASO ISO 20347: 2014, Cl. 6.3	
Mechanical Test	Leather & Leather Products Containing Other Accessories	Footwear -- Test methods for uppers and lining -- Flex resistance	SASO ISO 17694: 2006	
		Leather -- Determination of flex resistance -- Part 1: Flexometer method	SASO ISO 5402-1: 2014	
Mechanical Test	Leather & Leather Products Containing other Accessories	Leather — Determination of flex resistance — Part 2: Vamp flex method	ISO 5402-2:2015	
		Vamp flex test - resistance to creasing and cracking	Ref. SATRA TM 25: 2018 Cold condition test excluded	
Mechanical Test	Leather & Leather Products Containing other Accessories	Footwear. Test methods for uppers, lining and insoles. Abrasion resistance	BS EN 13520: 2002	
		Determination of abrasion resistance of lining and insock	ISO 20344: 2011, Cl. 6.12	
			ISO 20345: 2011, Cl. 5.7.4.2	

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			ISO 20346: 2014, Cl. 5.7.4.2	
Mechanical Test	Leather & Leather Products Containing other Accessories	Determination of abrasion resistance of lining and insock	ISO 20347: 2012, Cl. 5.7.4.2	
			SASO ISO 20344: 2014, Cl. 6.12	
			SASO ISO 20345: 2014, Cl. 5.7.4.2	
			SASO ISO 20346: 2007, Cl. 5.7.4.2	
			SASO ISO 20347: 2014, Cl. 5.7.4.2	
		Determination of insulation against cold	ISO 20344: 2011, Cl. 5.13	
		Determination of insulation against cold	SASO ISO 20344: 2014, Cl. 5.13	
Mechanical Test	Leather & Leather Products Containing other Accessories, Soling material	Methods of test for footwear and footwear materials. Solings. Resistance of solings to short-term contact with a	BS 5131: 1983, Cl. 2.11	
		Resistance to damage due to contact with a hot surface	Ref. SATRA TM 49: 1995	
		Determination of resistance to hot contact	ISO 20344: 2011, Cl. 8.7	
		Determination of resistance to hot contact	ISO 20345: 2011, Cl. 6.4.4	
		Determination of resistance to hot contact	ISO 20346: 2014, Cl. 6.4.4	
		Determination of resistance to hot contact	ISO 20347: 2012, Cl. 6.4.1	
		Determination of resistance to hot contact	SASO ISO 20344: 2014, Cl.	
		Determination of resistance to hot contact	SASO ISO 20345: 2014, Cl.	
		Determination of resistance to hot contact	SASO ISO 20346: 2007, Cl.	
		Determination of resistance to hot contact	SASO ISO 20347: 2014, Cl.	

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Mechanical Test	Soling Materials, Rubber Materials, PU Sole Materials, Leather Sole, Footwears	Footwear — Test methods for outsoles — Flex resistance	ISO 17707: 2005	
		Footwear — Test methods for outsoles — Flex resistance	SASO ISO 17707: 2007	
		Bennewart flex test - resistance to cut growth on flexing	Ref. SATRA TM 161:2004	
		Determination of flexing resistance of outsole	ISO 20344: 2011, Cl. 8.4	
		Determination of flexing resistance of outsole	ISO 20345: 2011, Cl. 5.8.4	
		Determination of flexing resistance of outsole	ISO 20346: 2014, Cl. 5.8.4	
		Determination of flexing resistance of outsole	ISO 20347: 2012, Cl. 5.8.4	
		Determination of flexing resistance of outsole	SASO ISO 20344: 2014, Cl. 8.4	
		Determination of flexing resistance of outsole	SASO ISO 20345: 2014, Cl. 5.8.4	
		Determination of flexing resistance of outsole	SASO ISO 20346: 2007, Cl. 5.8.4	
		Determination of flexing resistance of outsole	SASO ISO 20347: 2014, Cl. 5.8.4	
Mechanical Test	Soling Materials, Rubber Materials, PU Sole Materials, Leather Sole, Footwears	Footwear — Test methods for outsoles — Abrasion	ISO 20871: 2018	
		Footwear — Test methods for outsoles — Abrasion	SASO ISO 20871: 2007	
		Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum	ISO 4649: 2017	
		Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum	SASO ISO 4649: 2014	
		Test Method for Rubber Property—Abrasion Resistance (Rotary	ASTM D5963: 04 (2015)	
		Footwear. Test methods for outsoles. Abrasion resistance	BS EN 12770: 2000	

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		Abrasion resistance - rotating drum method	Ref. SATRA TM 174: 2016, Method 1	
		Determination of outsole abrasion resistance	ISO 20344: 2011, Cl. 8.3	
		Determination of outsole abrasion resistance	ISO 20345: 2011, Cl. 5.8.3	
		Determination of outsole abrasion resistance	ISO 20346: 2014, Cl. 5.8.3	
		Determination of outsole abrasion resistance	ISO 20347: 2012, Cl. 5.8.3	
		Determination of outsole abrasion resistance	SASO ISO 20344: 2014, Cl. 8.3	
		Determination of outsole abrasion resistance	SASO ISO 20345: 2014, Cl. 5.8.3	
		Determination of outsole abrasion resistance	SASO ISO 20346: 2007, Cl. 5.8.3	
		Determination of outsole abrasion resistance	SASO ISO 20347: 2014, Cl. 5.8.3	
Mechanical Test	Soling Materials, Rubber Materials, PU Sole Materials, Leather Sole, Footwear	Rubber, vulcanized or thermoplastic -- Determination of	ISO 2781: 2018	
		Rubber, vulcanized or thermoplastic -- Determination of	SASO ISO 2781: 2010	
		Density of materials by volume displacement	Ref. SATRA TM 134: 1998	
		Density of complete sole units	Ref. SATRA TM 138: 2001	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Adhesion of stuck-on and moulded-on soles	BS 5131 SEC 5.1: 1990	
		Rapid Sole adhesion test - For Complete footwear	Ref. SATRA TM 404: 1992	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Footwear - test methods for whole shoe - upper sole	ISO 17708: 2018	
		Footwear - test methods for whole shoe - upper sole adhesion	SASO ISO 17708: 2007	

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Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Methods of test for footwear and footwear materials. Testing of complete footwear. Sole bond peeling strength	BS 5131: 1978, Cl. 5.4	
		Determination of upper/outsole and sole interlayer bond strength	ISO 20344: 2011, Cl. 5.2	
		Determination of upper/outsole and sole interlayer bond strength	ISO 20345: 2011, Cl. 5.8.6	
		Determination of upper/outsole and sole interlayer bond strength	ISO 20346: 2014, Cl. 5.3.1.2	
		Determination of upper/outsole and sole interlayer bond strength	ISO 20347: 2012, Cl. 5.8.6	
		Determination of upper/outsole and sole interlayer bond strength	SASO ISO 20344: 2014, Cl. 5.2	
		Determination of upper/outsole and sole interlayer bond strength	SASO ISO 20345: 2014, Cl. 5.8.6	
		Determination of upper/outsole and sole interlayer bond strength	SASO ISO 20346: 2007, Cl. 5.3.1.2	
		Determination of upper/outsole and sole interlayer bond strength	SASO ISO 20347: 2014, Cl. 5.8.6	
		Personal protective equipment - footwear - test method for slip	ISO 13287:2012	
		Personal protective equipment - footwear - test method for slip	SASO ISO 13287:2014	
		Determination of footwear slip resistance	ISO 20344: 2011, Cl. 5.11	

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		Determination of footwear slip resistance	ISO 20345: 2011, Cl.5.3.5	
		Determination of footwear slip resistance	ISO 20347: 2012, Cl.5.3.4	
		Determination of footwear slip resistance	SASO ISO 20344: 2014, Cl.5.11	
		Determination of footwear slip resistance	SASO ISO 20345: 2014, Cl.5.3.5	
		Determination of footwear slip resistance	SASO ISO 20347: 2014, Cl.5.3.4	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Fatigue test for Shoe heels - (Heel Fatigue)	ISO 19956: 2004	
		Fatigue test for Shoe heels - (Heel Fatigue)	SASO ISO 19956: 2007	
		Lateral impact test for shoe heels	Ref. SATRA TM 21: 2017	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Footwear -- Ageing conditioning	SASO ISO 20870: 2007	
		Resistance of Footwear Flexing	Ref. SATRA TM 92: 2016	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Measurement of the height of the upper	ISO 20344: 2011, Cl. 6.2	
		Measurement of the height of the upper	SASO ISO 20344: 2014, Cl. 6.2	
		Measurement of the height of the upper	ISO 20345: 2011, Cl. 5.2.2	
		Measurement of the height of the upper	SASO ISO 20345: 2014, Cl.	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Determination of abrasion resistance of insole	ISO 20344: 2011, Cl. 7.3	
		Determination of abrasion resistance of insole	SASO ISO 20344: 2014, Cl. 7.3	
		Determination of abrasion resistance of insole	ISO 20345: 2011, Cl. 5.7.4.1	
		Determination of abrasion resistance of insole	SASO ISO 20345: 2014, Cl. 5.7.4.1	
Mechanical Test	Leather and Leather Product	Determination of outsole thickness	ISO 20344: 2011, Cl. 8.1.2	

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	Footwears, Sandal Products materials	Determination of outsole thickness	ISO 20345: 2011, Cl. 5.8.1	
		Determination of outsole thickness	SASO ISO 20344: 2014, Cl.	
		Determination of outsole thickness	SASO ISO 20345: 2014, Cl.	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Determination of the penetration resistance of footwear using a	ISO 20344: 2011, Cl. 5.8.2	
		Determination of penetration force	ISO 20345: 2011, Cl. 6.2.1.1	
		Determination of penetration force	ISO 20346: 2014, Cl. 6.2.1.1	
		Determination of penetration force	ISO 20347: 2012, Cl. 6.2.1.1	
		Determination of penetration force	SASO ISO 20344: 2014, Cl.	
		Determination of penetration force	SASO ISO 20345: 2014, Cl. 6.2.1.1	
		Determination of penetration force	SASO ISO 20346: 2007, Cl. 6.2.1.1	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Determination of penetration force	SASO ISO 20347: 2014, Cl. 6.2.1.1	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	ISO 20344: 2011, Cl.5.10 wet conditions excluded	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	ISO 20345: 2011, Cl. 6.2.2	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	ISO 20346: 2014, Cl. 6.2.2	

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		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	ISO 20347: 2012, Cl. 6.2.2	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	SASO ISO 20344: 2014, Cl.5.10 wet	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	SASO ISO 20345: 2014, Cl.6.2.2	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	SASO ISO 20346: 2007, Cl.6.2.2	
		Determination of electrical resistance (Conductive Footwear, Antistatic Footwear)	SASO ISO 20347: 2014, Cl.6.2.2	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Determination of impact resistance	ISO 20344: 2011, Cl.5.4	
		Determination of impact resistance	ISO 20345: 2011, Cl.5.3.2.3	
		Determination of impact resistance	ISO 20346: 2014, Cl.5.3.2.3	
		Determination of impact resistance	SASO ISO 20344: 2014, Cl.5.4	
		Determination of impact resistance	SASO ISO 20345: 2014, Cl.5.3.2.3	
		Determination of impact resistance	SASO ISO 20346: 2007, Cl.5.3.2.3	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Determination of insulation against heat	ISO 20344: 2011, Cl.5.12	
			ISO 20345: 2011, Cl.6.2.3.1	
			ISO 20346: 2014, Cl.6.2.3.1	
			ISO 20347: 2012, Cl.6.2.3.1	

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			SASO ISO 20344: 2014, Cl.5.12	
			SASO ISO 20345: 2014, Cl.6.2.3.1	
			SASO ISO 20346: 2007, Cl.6.2.3.1	
			SASO ISO 20347: 2014, Cl.6.2.3.1	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Determination of leak Proofness	ISO 20344: 2011, Cl.5.7	
			ISO 20345: 2011, Cl.5.3.3	
			ISO 20346: 2014, Cl.5.3.3	
			ISO 20347: 2012, Cl.5.3.2	
			SASO ISO 20344: 2014, Cl.5.7	
			SASO ISO 20345: 2014, Cl.5.3.3	
			SASO ISO 20346: 2007, Cl.5.3.3	
			SASO ISO 20347: 2014, Cl.5.3.2	
Mechanical Test	Protective gloves	Protective gloves against mechanical risks, Blade Cut resistance	BS EN 388: 2018, Cl. 6.2	
	Leather and Leather Product Footwears, Sandal Products materials	Determination of resistance of upper to cutting	ISO 20344: 2011, Cl.6.14	
		Determination of resistance of upper to cutting	ISO 20345: 2011, Cl.6.2.8	
		Determination of resistance of upper to cutting	ISO 20346: 2014, Cl.5.3.3	
		Determination of resistance of upper to cutting	ISO 20347: 2012, Cl.6.2.7	

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		Determination of resistance of upper to cutting	SASO ISO 20344: 2014, Cl.6.14	
		Determination of resistance of upper to cutting	SASO ISO 20345: 2014, Cl.6.2.8	
		Determination of resistance of upper to cutting	SASO ISO 20346: 2007, Cl.5.3.3	
		Determination of resistance of upper to cutting	SASO ISO 20347: 2014, Cl.6.2.7	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Standard test method for Foot Protection	ASTM F2412: 2018, Cl.	
		Standard Specification for Performance requirement for protective (Safety) Toe cap footwear Clause: 5.6. Electric hazard resistance	ASTM F2413: 2018, Cl.5.6	
Mechanical Test	Footwears, Footwears Materials, Belt Materials, Zipper Materials, Velcro material	Peel strength before and after repeated closing	ISO 22777: 2004	
		Peel strength before and after repeated closing	SASO ISO 22777: 2007	
		shear strength before and after repeated closing	ISO 22776: 2004	
		shear strength before and after repeated closing	SASO ISO 22776: 2007	
		Closure strength of touch and close fasteners	SATRA TM 123: 2018	
		Attachment strength/ buckle/ straps/ trims/bows	SATRA TM 117:1992	
		Lace Breaking Strength	BS 5131: 1991, Cl. 3.7	
		Breaking Force of Buckle – Three-point bending test	SATRA TM 141:1994	
		Strength of buckles and strap	SATRA TM 181:2017	
		Knot slippage test	SATRA TM 195:2004	
		Strength of slide fastener puller	SATRA TM 52:2018	
		Attachment strength of slide fastener end stops	SATRA TM 53:1992	
		Slider locking strength of slide fasteners	SATRA TM 226:1999	

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		Resistance of elastics to repeated extension	SATRA TM 103: 2018	
Chemical Test	Finished Leather, Footwears, Leather Products, Synthetic Materials, Industrial Products	leather -chemical determination of formaldehyde content — method using colorimetric analysis	ISO 17226-2: 2018	
		leather -chemical determination of formaldehyde content — method using colorimetric analysis	SASO ISO 17226-2: 2010	
Chemical Test	Finished Leather, Footwears, Leather Products, Synthetic Materials, Industrial Products	Standard Test Method for pH of Leather	ASTM D2810: 2018	
		leather - chemical tests - determination of pH	ISO 4045: 2018	
		leather - chemical tests - determination of pH	SASO ISO 4045: 2014	
		Volatile Matter (Moisture) of Leather	ASTM D3790: 2017	
Chemical Test Test	Leather & Leather Products Containing other Accessories	Leather -- Tests for colour fastness -- Colour fastness to perspiration	ISO 11641: 2012	
		Leather -- Tests for colour fastness -- Colour fastness to perspiration	SASO ISO 11641: 2014	
		Footwear -- Test methods for uppers, linings and insoles -- Colour fastness to	ISO 17700: 2019 Method D	
		Footwear -- Test methods for uppers, linings and insoles -- Colour fastness to	SASO ISO 17700: 2007 Method C	
		Colour fastness to perspiration	SATRA TM 335: 2018	

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Chemical Test	Leather & Leather Products Containing other Accessories	leather - tests for colour fastness - colour fastness to water	ISO 11642: 2012	
		leather - tests for colour fastness - colour fastness to water	SASO ISO 11642: 2014	
		Colour fastness to Water	SATRA TM 335: 2018	
Chemical Test	Leather & Leather Products Containing other Accessories	Colour fastness to light from a xenon arc	SATRA TM 160: 1992	
Chemical Test	Leather & Leather Products Containing other Accessories	Leather -- Tests for colour fastness -- Colour fastness to water spotting	SASO ISO 15700: 2007	
Chemical Test	Leather & Leather Products Containing other Accessories	Leather -- Tests for colour fastness -- Colour fastness to cycles of	SASO ISO 11640: 2014	
		Footwear -- Test methods for uppers, linings and in socks -- Color fastness to rubbing	SASO ISO 17700: 2007 Method A	
Chemical Test	Leather & Leather Products Containing other Accessories	Leather -- Tests for colour fastness -- Colour fastness to crocking	SASO ISO 20433: 2014	
Chemical Test	Finished Leather, Footwears, Leather Products, Synthetic Materials, Industrial Products	Leather - chemical tests - determination of pH	GSO ISO 4045: 2014	
Visual Assessment	Leather and Leather, product	Labelling/Marking	SASO ISO 20346-7: 2007	

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	footwear, Sandal Product materials		SASO ISO TR 20880-5: 2014	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Construction	ISO 20345:2011 clause 5.3.1.1	
			ISO 20346:2004 clause 5.3.1.1	
			ISO 20347:2012 clause 5.3.1.1	
			SASO ISO 20345:2014 clause 5.3.1.1	
			SASO ISO 20346:2007 clause 5.3.1.1	
			SASO ISO 20347:2014 clause 5.3.1.1	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Seat region	ISO 20345:2011 clause 5.2.3	
			ISO 20346:2004 clause 5.2.3	
			ISO 20347:2012 clause 5.2.3	
			SASO ISO 20345:2014 clause 5.2.3	
			SASO ISO 20346:2007 clause 5.2.3	

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			SASO ISO 20347:2014 clause 5.2.3	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	General	ISO 20345:2014 clause 5.3.2.1	
			ISO 20346:2004 clause 5.3.2.1	
			ISO 20347:2012 clause 5.3.2.1	
			SASO ISO 20345:2014 clause 5.3.2.1	
			SASO ISO 20346:2007 clause 5.3.2.1	
			SASO ISO 20347:2014 clause 5.3.2.1	
Mechanical Test	Leather & Leather Products Containing other Accessories	Internal length of toecap	ISO 20344:2011 clause 5.3	
			SASO ISO 20344:2014 clause 5.3	
			ISO 20345:2011 clause 5.3.2.2	
			ISO 20346:2004 clause 5.3.2.2	

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			ISO 20347:2012 clause 5.3.2.2	
			SASO ISO 20345:2014 clause 5.3.2.2	
			SASO ISO 20346:2007 clause 5.3.2.2	
			SASO ISO 20347:2014 clause 5.3.2.2	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Compression resistance of safety footwear	ISO 20344:2011 clause 5.5	
			SASO ISO 20344:2014 clause 5.5	
			ISO 20345:2011 clause 5.3.2.4	
			ISO 20346:2004 clause 5.3.2.4	
			ISO 20347:2012 clause 5.3.2.4	
			SASO ISO 20345:2014 clause 5.3.2.4	
			SASO ISO 20346:2007 clause 5.3.2.4	

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			SASO ISO 20345:2014 clause 5.3.2.4	
Mechanical Test	Leather & Leather Products Containing Other Accessories	Behavior of toe cap-metallic	ISO 20344:2011 clause 5.6	
			SASO ISO 20344:2014 clause 5.6	
			ISO 20345:2011 clause 5.3.2.5.1	
			ISO 20346:2004 clause 5.3.2.5.1	
			ISO 20347:2012 clause 5.3.2.5.1	
			SASO ISO 20345:2014 clause 5.3.2.5.1	
			SASO ISO 20346:2007 clause 5.3.2.5.1	
			SASO ISO 20347:2014 clause 5.3.2.5.1	
Mechanical Test	Foot and Leg protectors	Determination of corrosion resistance Clause 5.3. Test method for metal toe cap , Clause 7.3. Test method for metal penetration resistant inserts	EN 12568:2010 Clause 5.3 , Clause 7.3	

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Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Specific ergonomic feature	ISO 20344: 2011 clause 5.1	
			SASO ISO 20344: 2014 clause 5.1	
			ISO 20345:2011 clause 5.3.4	
			ISO 20346:2004 clause 5.3.4	
			ISO 20347:2012 clause 5.3.4	
			SASO ISO 20345:2014 clause 5.3.4	
			SASO ISO 20346:2007 clause 5.3.4	
			SASO ISO 20347:2014 clause 5.3.4	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Energy absorption of seat region	ISO 20344:2011, 5.14	
			SASO ISO 20344:2014, 5.14	
			ISO 20345:2011 clause 6.2.4	
			ISO 20346:2004 clause 6.2.4	

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			ISO 20347:2012 clause 6.2.4	
			SASO ISO 20345:2014 clause 6.2.4	
			SASO ISO 20346:2007 clause 6.2.4	
			SASO ISO 20347:2014 clause 6.2.4	
Mechanical Test	Leather & Leather Products Containing other Accessories	Water absorption & desorption	ISO 20344:2011 clause 7.2	
			SASO ISO 20344:2014 clause 7.2	
			ISO 20345:2011 clause 5.7.3	
			ISO 20346:2004 clause 5.7.3	
			ISO 20347:2012 clause 5.7.3	
			SASO ISO 20345:2014 clause 5.7.3	

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			SASO ISO 20346:2007 clause 5.7.3	
			SASO ISO 20347:2014 clause 5.7.3	
Mechanical Test	Leather & Leather Products Containing other Accessories	Leather -- Physical test methods -- Determination of water resistance of heavy leathers	SASO ISO 5404:2014	
			ISO 5404:2011	
Mechanical Test	Leather & Leather Products Containing other Accessories	Tear strength of outsole	ISO 20344:2011 clause 8.2	
			SASO ISO 20344:2011 clause 8.2	
			ISO 20345:2011 clause 5.8.2	
			ISO 20346:2004 clause 5.8.2	
			ISO 20347:2012 clause 5.8.2	
			SASO ISO 20345:2014 clause 5.8.2	
			SASO ISO 20346:2007 clause 5.8.2	
			SASO ISO 20347:2014 clause 5.8.2	

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Mechanical Test	Leather & Leather Products Containing other Accessories	Resistance of fuel oil	ISO 20344:2011 clause 8.6.1	
			SASO ISO 20344:2011 clause 8.6.1	
			ISO 20345:2011 clause 6.4.2	
			ISO 20346:2004 clause 6.4.2	
			ISO 20347:2012 clause 6.4.2	
			SASO ISO 20345:2014 clause 6.4.2	
			SASO ISO 20346:2007 clause 6.4.2	
			SASO ISO 20347:2014 clause 6.4.2	
Mechanical Test	Leather & Leather Products Containing other Accessories	Leather -- Physical and mechanical tests -- Determination of thickness	ISO 868: 2003	
			SASO ISO 868: 2006	

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		Rubber, vulcanized or thermoplastic-Determination of indentation hardness - Part 1: Durometer method (Shore Hardness) Excluding thin test pieces (< 6mm thick) and pieces having less than 20 Shore with a type D durometer)	ISO 7619-1: 2010	
		Standard Test Method for Rubber Property—Durometer Hardness	ASTM D2240: 2015	
		Hardness of Rubber, Polyurethane and Plastic Durometer Method	Ref. SATRA TM 205: (16)2017	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Children footwear- requirements and test methods Cl. 6: Packaging Cl. 7: Marking	SASO 2901: 2018, Cl. 6 and Cl. 7	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Men's footwear- Specification and test methods Cl. 5 Packaging Cl. 6: Marking	SASO 2889: 2017, Cl. 5 and Cl. 6	
Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Leather and Leather Product Footwears, Sandal Products materials - Construction	ISO 20345:2011 clause 6.2.1.2	
			ISO 20346:2014 clause 6.2.1.2	
			ISO 20347:2012 clause 6.2.1.2	

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Mechanical Test	Leather and Leather Product Footwears, Sandal Products materials	Leather and Leather Product Footwears, Sandal Products materials - Dimensions	ISO 20344:2011, 5.8.1	
			SASO ISO 20344:2017, 5.8.1	
			ISO 20345:2011 clause 6.2.1.3	
			ISO 20346:2014 clause 6.2.1.3	
			ISO 20347:2012 clause 6.2.1.3	
Mechanical Test	Toys	Sharp point Test	EN 71-1:2018, Cl. 8.12	
			ASTM F963 – 17, Cl. 4.9	
			16 CFR 1500 48: 2017	
			JAPAN ST 2012, Cl. 5.9	
			AS/NZS 8124-1:2019, Cl. 5.9	
			ISO 8124 -1: 2018, Cl. 5.9	
		Sharp Edge Test	EN 71 -1: 2018, Cl. 8.11	
			ASTM F963:17, Cl. 4.7	
			JAPAN ST 2012, Cl. 5.8	
			16 CFR 1500 49: 2017	
			AS/NZS 8124-1:2019, Cl. 5.8	
			ISO 8124 -1: 2018, Cl.5.8	
Mechanical Test	Toys	Small Parts	EN 71 – 1:2018, Cl. 8.2	
			ASTM F963 – 17, Cl. 4.6	
			AS/NZS 8124-1:2019, Cl. 5.2	
			ISO 8124 -1: 2018, Cl.5.2	

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			JAPAN ST 2012, Cl. 5.2	
			16 CFR 1501:2017	
		Torque Test	EN 71-1:2018, Cl. 8.3	
			ASTM F963 – 17, Cl. 8.8	
			16 CFR 1500 51,52,53: 2017	
			JAPAN ST 2012, Cl. 5.22.5	
			AS/NZS 8124-1:2019, Cl. 5.24.5	
			ISO 8124 -1: 2018, Cl.5.24.5	
		Tension Test	EN 71-1:2018, Cl. 8.4	
			ASTM F963 – 17, Cl. 8.9	
			16 CFR 1500 51,52,53:2017	
			JAPAN ST 2012, Cl. 5.22.6	
			AS/NZS 8124-1:2019 5.24.6	
			ISO 8124 -1: 2018, Cl.5.24.6	
		Impact Test	EN 71-1:2018, Cl. 8.7	
			16 CFR 1500 51,52,53:2017	
			ASTM F963 – 17, Cl. 8.7	
		Drop Test	EN71-1 :2018, Cl. 8.5	
			ASTM F963 – 17, Cl. 8.7.1	
			JAPAN ST 2012, Cl. 5.22.2	
			AS/NZS 8124-1:2019, Cl. 5.24.2	
			ISO 8124 -1: 2018, Cl.5.24.2	
Mechanical Test	Toys	Bite Test	16 CFR 1500 51,52,53:2017	
			JAPAN ST 2012, Cl. 5.3.1	

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		Flexure Test	EN71-1 :2018, Cl. 8.13	
			16 CFR 1500 51,52,53:2017	
			JAPAN ST 2012, Cl. 5.22.8	
			ASTM F963 – 17, Cl. 8.12	
			AS/NZS 8124-1:2019, Cl. 5.24.8	
		Tip Over Test	ISO 8124 -1: 2018, Cl.5.24.8	
			EN 71-1:2018, Cl. 8.6	
			JAPAN ST 2012, Cl. 5.22.3	
			16 CFR 1500 51,52,53:2017	
			AS/NZS 8124-1:2019, Cl. 5.24.3	
		Soaking Test	ISO 8124 -1: 2018, Cl.5.24.3	
			ASTM F963 – 17, Cl. 8.7	
			EN71-1:2018, Cl. 8.9	
			ASTM F963 – 17, Cl. 8.25.4.1	
		Durability of Mouth Actuated Toys	AS/NZS 8124-1:2019, Cl. 5.34	
			ISO 8124 -1: 2018, Cl.5.34	
			EN71-1:2018, Cl. 8.17	
			ASTM F963 – 17, Cl. 8.13.2.2	
			JAPAN ST 2012, Cl. 5.18	
Mechanical Test	Toys	Dynamic strength	AS/NZS 8124-1:2019, Cl. 5.20	
			ISO 8124 -1: 2018, Cl.5.20	
		Static Strength	EN71 -1:2018, Cl. 8.22	
			ASTM F963 – 17, Cl. 8.21	
			EN 71-1:2018, Cl. 8.21	

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			AS/NZS 8124-1:2019, Cl.5.26	
			ISO 8124 -1: 2018, Cl.5.26	
			ASTM F963 – 17, Cl. 8.28	
		Kinetic Energy	EN71-1 :2018, Cl. 8.24	
			JAPAN ST 2012, Cl. 5.15	
			AS/NZS 8124-1:2019, Cl. 5.15	
			ISO 8124 -1: 2018, Cl.5.15	
			ASTM F963 – 17, Cl. 8.14	
		Stability Test	EN71-1 :2018, Cl. 8.23	
			JAPAN ST 2012, Cl. 5.12	
			AS/NZS 8124-1:2019, Cl. 5.12	
			ISO 8124 -1: 2018, Cl.5.12	
		Brake Performance	EN71-1 :2018, Cl. 8.26 (Excluded 8.26.1.2 & 8.26.1.3)	
			AS/NZS 8124-1:2019, Cl. 5.16 (Excluded 5.16.1)	
			ISO 8124-1:2018, Cl. 5.16 16 (Excluded 5.16.1)	
		Toy Chest Lid	EN71-1 :2018, Cl. 8.31	
			JAPAN ST 2012, Cl. 5.13	
			AS/NZS 8124-1:2019, Cl. 5.13	
			ISO 8124-1:2018, Cl. 5.13	
			ASTM F963 – 17, Cl. 8.27	

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Mechanical Test	Toys	Small balls and suction cups test	EN71-1 :2018, Cl. 8.32	
			ASTM F963 – 17, Cl. 5.11	
			JAPAN ST 2012, Cl. 5.4	
			AS/NZS 8124-1:2019, Cl. 5.4	
			ISO 8124-1:2018, Cl. 5.4	
		Magnetic Flux Index	EN71-1 :2018, Cl. 8.35	
			JAPAN ST 2012, Cl. 5.25	
			AS/NZS 8124-1:2019, Cl. 5.32	
			ISO 8124-1:2018, Cl. 5.32	
			ASTM F963 – 17, Cl. 8.25	
		Perimeter of Cords and Chains	EN 71-1 :2018, Cl. 8.36	
			JAPAN ST 2012, Cl. 5.11.4	
		Breakaway feature separation test	EN 71-1 :2018, Cl. 8.38	
			JAPAN ST 2012, Cl. 5.11.3	
		Test for loops and cords	ASTM F963 – 17, Cl. 8.23	
		Test for cords and elastics	AS/NZS 8124-1:2019, Cl. 5.11	
			ISO 8124-1-2018, Cl. 5.11	
		Length of Cords and Chains	EN71-1:2018, Cl. 8.40	
			JAPAN ST 2012, Cl. 5.11 .2	
		Emission Sound Pressure Level Test	EN 71-1:2018, Cl. 8.28 16 (Excluded 8.28.2.4 & 8.28.2.11)	
			JAPAN ST 2012, Cl. 5.23	
			AS/NZS 8124-1:2019, Cl. 5.25	

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			ISO 8124-1 :2018, Cl. 5.25	
			ASTM F963 – 17, Cl. 8.20	
Mechanical Test	Toys	Flammability Test	EN 71-2:2011+A1:2014	
			Excluding Tests for flammable gases, extremely flammable liquids, highly flammable liquids and flammable gels)	
			ASTM F963 – 17 Annex-A5	
			ISO 8124-2:2014	
			AS/NZS 8124-2:2016	
			16 CFR 1500.44: 2011	
		Compression Test	EN 71-1:2018, Cl. 8.8	
			ASTM F963 – 17, Cl. 8.9	
			16 CFR 1500 51, 52, 53: 2017	
			JAPAN ST 2012, Cl. 5.22.7	
			AS/NZS 8124-1:2019, Cl. 5.24.7	
			ISO 8124-1:2018, Cl. 5.24.7	
		Folding and Sliding Mechanism.	EN 71-1 2018, Cl. 8.18	
			ISO 8124-1:2018, Cl. 5.22	
			ASTM F963 – 17, Cl. 8.26	
			JAPAN ST 2012, Cl. 5.20	

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			AS/NZS 8124-1:2019, Cl. 5.22	
Mechanical Test	Toys	Accessibility of a part or component	EN 71-1:2018 clause 8.10, 4.5, 4.7, 4.8, 4.10.2, 4.10.4, 4.15.1.3, 4.21, 5.2 and 5.7	
			AS/NZS 8124-1:2019 clause 5.7, 4.6, 4.7, 4.13, and 4.14	
			ASTM F963 4.18	
			ISO 8124 - Part-1: 2014 clause 5.7, 4.6, 4.7, 4.13, and 4.14	
			Japan ST 2012 Clause 5.7	

Note: the text in blue indicates the new scope OR update in the Edition of a test method in this issue of the scope of accreditation.

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Log of Suspended Scopes:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Suspended	Date Reinstated

Log of Withdrawn Scopes:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Withdrawn

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