

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-21147-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 06.04.2023

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This annex is a part of the accreditation certificate D-PL-21147-01-00.

Holder of partial accreditation certificate:

Hohenstein India Pvt. Ltd.
Plot No. 33, Udyog Vihar Phase - 4
GURUGRAM, HARYANA 122015, INDIA

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

tests on fibers, yarns, fabrics, clothing and leather in the field of textile technology;
tests of footwear;
mechanical and physical tests for safety of toys;
tests on toys, infant products and flammability tests according to the specifications of the United States Consumer Product Safety Commission (CPSC);

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

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1 Textile technology tests
1.1 Colour fastnesses

ISO 105-N01 1993-10	Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite
DIN EN ISO 105-B02 2014-11	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:2014)
DIN EN ISO 105-B07 2009-10	Textiles - Tests for colour fastness - Part B07: Colour fastness to light of textiles wetted with artificial perspiration (ISO 105-B07:2009)
DIN EN ISO 105-C06 2010-08	Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering (ISO 105-C06:2010)
DIN EN ISO 105-C08 2010-08	Textiles - Tests for colour fastness - Part C08: Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low-temperature bleach activator (ISO 105-C08:2010)
DIN EN ISO 105-C09 2007-10	Textiles - Tests for colour fastness - Part C09: Colour fastness to domestic and commercial laundering - Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator (ISO 105-C09:2001+Amd 1:2003)
DIN EN ISO 105-C10 2007-06	Textiles - Tests for colour fastness - Part C10: Colour fastness to washing with soap or soap and soda (ISO 105-C10:2006)
DIN EN ISO 105-D01 2010-10	Textiles - Tests for colour fastness - Part D01: Colour fastness to dry cleaning of using perchloroethylene solvent (ISO 105-D01:2010)
DIN EN ISO 105-E01 2013-06	Textiles - Tests for colour fastness - Part E01: Colour fastness to water (ISO 105-D01:2013)
DIN EN ISO 105-E02 2013-06	Textiles - Tests for colour fastness - Part E02: Colour fastness to sea water (ISO 105-E02:2013)
DIN EN ISO 105-E03 2010-08	Textiles - Tests for colour fastness - Part E03: Colour fastness to chlorinated water (swimming-pool water) (ISO 105-E03:2010)
DIN EN ISO 105-E04 2013-08	Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration (ISO 105-E04:2013)
DIN EN ISO 105-E05 2010-12	Textiles - Tests for colour fastness - Part E05: Colour fastness to spotting: Acid (ISO 105-E05:2010)

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DIN EN ISO 105-E06 2006-10	Textiles - Tests for colour fastness - Part E06: Colour fastness to spotting: Alkali (ISO 105-E06:2006)
DIN EN ISO 105-E07 2010-08	Textiles - Tests for colour fastness - Part E07: Colour fastness to spotting: Water (ISO 105-E07:2010)
DIN EN ISO 105-G03 1997-07	Textiles - Tests for colour fastness - Part G03: Colour fastness to ozone in the atmosphere (ISO 105-G03:1993)
DIN EN ISO 105-P01 1995-04	Textiles - Tests for colour fastness - Part P01: Colour fastness to dry heat (excluding pressing) (ISO 105-P01:1993)
DIN EN ISO 105-X05 1997-05	Textiles - Tests for colour fastness - Part X05: Colour fastness to organic solvents (ISO 105-X05:1997)
DIN EN ISO 105-X10 1995-12	Textiles - Tests for colour fastness - Part X10: Assessment of migration of textile colours into polyvinyl chloride coatings (ISO 105-X10:1993)
DIN EN ISO 105-X11 1996-10	Textiles - Tests for colour fastness - Part X11: Colour fastness to hot pressing (ISO 105-X11:1994)
DIN EN ISO 105-X12 2016-11	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12:2016)
DIN EN ISO 105-X16 2016-11	Textiles - Tests for colour fastness - Part X16: Colour fastness to rubbing - Small areas (ISO 105-X16:2016)
DIN EN ISO 105-X18 2007-12	Textiles - Tests for colour fastness - Part X18: Assessment of the potential to phenolic yellowing of materials (ISO 105-X18:2007)
DIN EN ISO 11640 2018-11	Leather - Tests for colour fastness - Colour fastness to cycles of to-and-fro rubbing (ISO 11640:2018)
DIN EN ISO 11641 2013-02	Leather - Tests for colour fastness - Colour fastness to perspiration (ISO 11641:2012)
DIN EN ISO 11642 2013-02	Leather - Tests for colour fastness - Colour fastness to water (ISO 11642:2012)
DIN EN ISO 11643 2009-10	Leather - Tests for colour fastness - Colour fastness of small samples to solvents (ISO 11643:2009)
DIN EN ISO 14419 2010-08	Textiles - Oil repellency - Hydrocarbon resistance test (ISO 14419:2010)

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DIN EN ISO 15700 1999-10	Leather - Tests for colour fastness - Colour fastness to water spotting (ISO 15700:1998)
DIN EN ISO 15702 1999-10	Leather - Tests for colour fastness - Colour fastness to machine washing (ISO 15702:1998)
DIN EN ISO 2589 2016-07	Leather - Physical and mechanical tests - Determination of thickness (ISO 2589:2016)
DIN 53160-1 2010-10	Determination of the colour fastness of articles for common use - Part 1: Test with artificial saliva
DIN 53160-2 2010-10	Determination of the colour fastness of articles for common use - Part 2: Test with artificial sweat
DIN 54016 2017-12	Testing of colour fastness of textiles - Determination of colour fastness of dyeings and prints to washing in presence of hypochlorite
DIN 54056 2017-11	Testing of colour fastness of textiles; determination of colour fastness of dyeings and prints to sublimation in storage
AATCC TM 6 2016	Colorfastness to Acids and Alkalis
AATCC TM 8 2016	Colorfastness to Crocking: Crockmeter Method
AATCC TM 15 2021	Colorfastness to Perspiration
AATCC TM 16.3 2020	Colorfastness to Light: Xenon-Arc
AATCC TM 61 2020	Colorfastness to Laundering: Accelerated
AATCC TM 79 2018	Absorbency of Textiles
AATCC TM 104 2014	Colorfastness to Water Spotting
AATCC TM 106 2013	Colorfastness to Water: Sea

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AATCC TM 107 2013	Colorfastness to Water
AATCC TM 109 2016	Colorfastness to Ozone in the Atmosphere under Low Humidities
AATCC TM 116 2018	Colorfastness to Crocking: Rotary Vertical Crockmeter Method
AATCC TM 117 2019	Colorfastness to Heat: Dry (Excluding Pressing)
AATCC TM 118 2020	Oil Repellency: Hydrocarbon Resistance Test
AATCC TM 125 2020	Colorfastness to Perspiration and Light
AATCC TM 132 2013	Colorfastness to Drycleaning
AATCC TM 133 2020	Colorfastness to Heat: Hot Pressing
AATCC TM 137 2012	Rug Back Staining on Vinyl Tile
AATCC TM 162 2011	Colorfastness to Water: Chlorinated Pool
AATCC TM 163 2013 (2020)	Colorfastness: Dye Transfer in Storage; Fabric-to-Fabric
AATCC TM 165 1999 (2021)	Colorfastness to Crocking: Textile Floor Coverings-Crockmeter
AATCC TM 172 2016	Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering
AATCC TM 188 2017	Colorfastness to Sodium Hypochlorite Bleach in Home Laundering
AATCC TS 001	Technical Supplement TS-001: Quick Methods for Colorfastness to Chlorine and Non-Chlorine Bleach

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ASTM D 5053 2015	Standard Test Method for Colorfastness of Crocking of Leather
GB/T 3920 2008	Textiles - Tests for colour fastness: Colour fastness to rubbing
GB/T 3921 2008	Textiles - Tests for Colour fastness to washing with soap or soap and soda
GB/T 5711 2015	Textiles - Tests for colour fastness - Colour fastness to dry cleaning using perchloroethylene solvent
GB/T 5713 2013	Textiles - Tests for colour fastness: Colour fastness to water
GB/T 8427 2019	Textiles - Tests for colour fastness: Colour fastness to artificial light: Xenon arc

1.2 Physical tests

ISO 3801 1977-09	Textiles - Woven fabrics - Determination of mass per unit length and mass per unit area
ISO 7211-2 1984-03	Textiles - Woven fabrics - Construction - Methods of analysis - Part 2: Determination of number of threads per unit length
ISO 7768 2009-05	Textiles - Test method for assessing the smoothness appearance of fabrics after cleansing
ISO 7769 2009-05	Textiles - Test method for assessing the appearance of creases in fabrics after cleansing
ISO 7770 2009-05	Textiles - Test method for assessing the smoothness appearance of seams in fabrics after cleansing
ISO 16322-1 2005-06	Textiles - Determination of spirality after laundering - Part 1: Percentage of wale spirality change in knitted garments
ISO 16322-2 2021-04	Textiles - Determination of spirality after laundering - Part 2: Woven and knitted fabrics
ISO 16322-3 2021-04	Textiles - Determination of spirality after laundering - Part 3: Woven and knitted garments

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ISO 22198 2006-10	Textiles - Fabrics - Determination of width and length
DIN EN ISO 2060 1995-04	Textiles - Yarn from packages - Determination of linear density (mass per unit length) by the skein method (ISO 2060:1994)
DIN EN ISO 2313-1 2021-09	Textiles - Determination of the recovery from creasing of a folded specimen of fabric by measuring the angle of recovery - Part 1: Method of the horizontally folded specimen (ISO 2313-1:2021)
DIN EN ISO 2411 2018-02	Rubber- or plastics-coated fabrics - Determination of coating adhesion (ISO 2411:2017)
DIN EN ISO 3175-2 2020-05	Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene (ISO 3175-2:2017, Corrected version 2019-12)
DIN EN ISO 3377-1 2012-03	Leather - Physical and mechanical tests - Determination of tear load - Part 1: Single edge tear (ISO 3377-1:2011)
DIN EN ISO 3377-2 2016-07	Leather - Physical and mechanical tests - Determination of tear load - Part 2: Double edge tear (ISO 3377-2:2016)
DIN EN ISO 4674-1 2017-03	Rubber - or plastics-coated fabrics - Determination of tear resistance - Part 1: Constant rate of tear methods (ISO 4674-1:2016)
DIN EN ISO 4920 2012-12	Textile fabrics - Determination of resistance to surface wetting (spray test) (ISO 4920:2012)
DIN EN ISO 5077 2008-04	Textiles - determination of dimensional change in washing and drying (ISO 5077:2007)
DIN EN ISO 6330 2013-02	Textiles - Dime washing and drying procedures for textile testing (ISO 6330:2012)
DIN EN ISO 6940 2004-06	Textile fabrics - Burning behaviour - Determination of ease of ignition of vertically oriented specimens (ISO 6940:2004)
DIN EN ISO 6941 2004-05	Textile fabrics - Burning behaviour - Measurement of flame spread properties of vertically oriented specimens (ISO 6941:2003)
DIN EN ISO 12945-1 2021-04	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 1: Pilling box method (ISO 12945-1:2020)

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DIN EN ISO 12945-2 2021-04	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method (ISO 12945-2:2020)
DIN EN ISO 12947-2 2017-03	Textiles - Determination of abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (ISO 12947-2:2016)
DIN EN ISO 12947-3 2007-04	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 3: Determination of mass loss (ISO 12947-3:1998+Cor. 1:2002)
DIN EN ISO 12947-4 2007-04	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 4: Assessment of appearance change (ISO 12947-4:1998+Cor. 1:2002)
DIN EN ISO 12952-1 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 1: Ignition source: smouldering cigarette (ISO 12952-1:2010)
DIN EN ISO 13934-1 2013-08	Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:2013)
DIN EN ISO 13934-2 2014-06	Textiles - Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (ISO 13934-2: 2014)
DIN EN ISO 13935-1 2014-07	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 1: Determination of maximum force to seam rupture using the strip method (ISO 13935-1: 2014)
DIN EN ISO 13935-2 2014-07	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2: 2014)
DIN EN ISO 13936-1 2004-07	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 1: Fixed seam opening method (ISO 13936-1:2004)
DIN EN ISO 13936-2 2004-07	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (ISO 13936-2:2004)
DIN EN ISO 13937-1 2000-06	Textiles - Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (ISO 13937-1:2000)
DIN EN ISO 13937-2 2000-06	Textiles - Tear properties of fabrics - Part 2: Determination of tear force of trouser-shaped test specimens (single tear method) (ISO 13937-2:2000)

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DIN EN ISO 13937-3 2000-06	Textiles - Tear properties of fabrics - Part 3: Determination of tear force of wing-shaped test specimens (single tear method) (ISO 13937-3: 2000)
DIN EN ISO 13937-4 2000-06	Textiles - Tear properties of fabrics - Part 4: Determination of tear force of tongue-shaped test specimens (double tear method) (ISO 13937-4:2000)
DIN EN ISO 13938-1 2020-02	Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (ISO 13938-1:2019)
DIN EN ISO 13938-2 2020-03	Textiles - Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:2019)
DIN EN ISO 15487 2018-12	Textiles - Method for assessing appearance of apparel and other textile end products after domestic washing and drying (ISO 15487:2018)
DIN EN ISO 20932-1 2020-05	Textiles - Determination of the elasticity of fabrics - Part 1: Strip tests (ISO 20932-1:2018)
DIN EN ISO 22775 2005-03	Footwear - Test methods for accessories: Metallic accessories - Corrosion resistance (ISO 22775:2004)
DIN EN 1049-2 1994-02	Textiles - Woven Fabrics - construction Methods of analysis - Part 2: Determination of number of threads per unit length
DIN EN 1103 2006-03	Textiles - Fabrics for apparel - Detailed procedure to determine the burning behavior
DIN EN 1773 1997-03	Textiles - Fabrics - Determination of width and length
DIN EN 12127 1997-12	Textile Fabrics - Determination of mass per unit area using small samples
DIN EN 14682 2015-03	Safety of children's clothing - Cords and drawstrings on children's clothing - Specifications (EN 14682:2014)
DIN EN 14878 2007-08	Textiles - Burning behaviour of children's nightwear - Specification
DIN EN 16732 2016-05	Slide fasteners (zips) - Specification
AATCC TM 22 2017	Water Repellency: Spray Test

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AATCC TM 66 2017	Wrinkle Recovery of Woven Fabrics: Recovery Angle
AATCC TM 88B 2018	Seam Smoothness in Fabrics after Home Laundering
AATCC TM 88C 2018	Crease Retention in Fabrics after Home Laundering
AATCC TM 124 2018	Smoothness Appearance of Fabrics after Home Laundering
AATCC TM 135 2018	Dimensional Changes of Fabrics after Home Laundering
AATCC TM 136 2013	Bond Strength of Bonded and Laminated Fabrics
AATCC TM 143 2018	Appearance of Apparel and Textile Products after Laundering
AATCC TM 150 2018	Dimensional Changes of Garments after Home Laundering
AATCC TM 158 2016	Dimensional Changes on Drycleaning, Perchloroethylene
AATCC TM 179 2019	Skew Change in Fabrics After Home Laundering
ASTM D 1059 2017	Standard Test Method for Yarn Number Based on Short-Length Specimens
ASTM D 1230 2017	Standard Test Method for Flammability of Apparel Textiles
ASTM D 1335 2021	Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
ASTM D 1424 2021	Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus
ASTM D 1683/D 1683M 2018	Standard Test Method for Failure in Sewn Seams of Woven Fabrics

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ASTM D 1907/D 1907M 2018	Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method
ASTM D 2061 2021	Standard Test Methods for Strength Tests for Zippers
ASTM D 2062 2021	Standard Test Methods for Operability of Zippers
ASTM D 2261 2017	Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)
ASTM D 2594/D 2594M 2021	Standard Test Method for Stretch Properties of Knitted Fabrics Having Low Power
ASTM D 2724 2019	Standard Test Methods for Bonded, Fused, and Laminated Apparel Fabrics
ASTM D 3107 2019	Standard Test Methods for Stretch Properties of Fabrics Woven from Stretch Yarns
ASTM D 3512/D 3512M 2016	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester
ASTM D 3774 2018	Standard Test Method for Width of Textile Fabric
ASTM D 3775 2017	Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics
ASTM D 3776/D 3776Ma 2020	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
ASTM D 3786/D 3786M 2018	Standard Test Method for Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method
ASTM D 3882 2020	Standard Test Method for Bow and Skew in Woven and Knitted Fabrics
ASTM D 3887 2008	Standard Specification for Tolerances for Knitted Fabrics
ASTM D 3939/D 3939M 2017	Standard Test Method for Snagging Resistance of Fabrics (Mace)

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ASTM D 4846 2021	Standard Test Method for Resistance to Unsnapping of Snap Fasteners
ASTM D 4964 2020	Standard Test Method for Tension and Elongation of Elastic Fabrics (Constant-Rate-of-Extension Type Tensile Testing Machine)
ASTM D 4966 2016	Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)
ASTM D 4970/D 4970M 2016	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Martindale Tester
ASTM D 5034 2021	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
ASTM D 5035 2019	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Strip Method)
ASTM D 5171 2015	Standard Test Method for Impact Resistance of Plastic Sew-Through Buttons
ASTM D 638 2014	Standard Test Method for Tensile Properties of Plastics
BS 2471 2005-05	Textiles. Woven fabrics. Determination of mass per unit length and mass per unit area
BS 2819+A2 1990-04	Methods for determination of bow, skew and lengthway distortion in woven and knitted fabrics
BS 4323 1979-02	Method for determination of dimensional change of fabrics induced by free steam
BS 5438 1976-11	Methods of test for flammability of vertically oriented textile fabrics and fabric assemblies subjected to a small igniting flame
BS 5441+A1 1988-09	Methods of test for knitted fabrics
BS 5651 1978-12	Cleansing and wetting procedures for use in the assessment of the effect of cleansing and wetting on the flammability of textile fabrics and fabric assemblies
BS 5722 1984-08	Specification for flammability performance of fabrics and fabric assemblies used in sleepwear and dressing gowns

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CAN/CGSB-4.2 No. 27.5 2008	Textile Test Methods Flame Resistance - 45° Angle Test - One-Second Flame Impingement
CAN/CGSB-4.2 No. 27.6 2015	Textile Test Methods Flame Resistance - Methenamine Tablet Test for Textile Floor Coverings
GB/T 3923.2 2013	Textiles - Tensile properties of fabrics: Determination of maximum force using the grab method
GB/T 8629 2001	Textiles - Domestic washing and drying procedures for textile testing
GB/T 8630 2013	Textiles - determination of dimensional change in washing and drying
SOP QM-11.IN.02.679 2018-12	Textiles - Determination of Linear Density of Thread / Yarn
SOP QM-11.IN.02.732 2018-11	Print / Motif Durability

1.3 Tests on toys

DIN EN 71-1 2018-12	Safety of toys - Part 1: Mechanical and physical properties 8.2 Small parts cylinder 8.3 Torque test 8.4 Tension test 8.11 Sharpness of edges 8.12 Sharpness of points
ASTM F 963 2017	Standard Consumer Safety Specification for Toy Safety 4.6 Small objects 4.7 Accessible edges 4.9 Accessible points 8.8 Torque test for removal of components 8.9 Tension test for removal of components

2 Footwear technology tests

DIN ISO 34-1 2016-09	Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1: Trouser, angle and crescent test pieces
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DIN ISO 4649 2021-06	Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device
DIN EN 12770 2000-03	Footwear - Test methods for outsoles - Abrasion resistance
DIN EN 12785 2000-06	Footwear - Test methods for whole shoe - Heel attachment
DIN EN 13520 2005-03	Footwear - Test methods for uppers, lining and insoles - Abrasion resistance
DIN EN ISO 3376 2020-08	Leather - Physical and mechanical tests - Determination of tensile strength and percentage elongation
DIN EN ISO 5402-1 2022-07	Leather - Determination of flex resistance - Part 1: Flexometer method
DIN EN ISO 5402-2 2015-12	Leather - Determination of flex resistance - Part 2: Vamp flex method
DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres - Salt spray tests
DIN EN ISO 11644 2009-09	Leather - Test for adhesion of finish
DIN EN ISO 13287 2020-02	Personal protective equipment - Footwear - Test method for slip resistance
DIN EN ISO 17707 2005-10	Footwear - Test methods for outsoles - Flex resistance
DIN EN ISO 17708 2018-10	Footwear - Test methods for whole shoe - Upper sole adhesion
DIN EN ISO 17227 2003-10	Leather - Physical and mechanical tests - Determination of dry heat resistance of leather
DIN EN ISO 17233 2017-05	Leather - Physical and mechanical tests - Determination of cold crack temperature of surface coatings
DIN EN ISO 17696 2018-12	Footwear - Test methods for uppers, lining and insoles - Tear strength

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DIN EN ISO 17697 2016-10	Footwear - Test methods for uppers, lining and insoles - Seam strength
DIN EN ISO 19953 2004-10	Footwear - Test methods for heels - Resistance to lateral impact
DIN EN ISO 19956 2004-12	Footwear - Test methods for heels - Fatigue resistance
DIN EN ISO 20344 2022-04	Personal protective equipment - Test methods for footwear
DIN EN ISO 22774 2005-03	Footwear - Test methods for accessories: shoe laces - Abrasion resistance
BS 5131-5.4 1978-05	Methods of test for footwear and footwear materials. Testing of complete footwear. Sole bond peeling strength
BS 5131-5.11 1981-11	Methods of test for footwear and footwear materials. Testing of complete footwear. Determination of the strength of buckle fastening assemblies
BS 5131-5.13 1980-04	Methods of test for footwear and footwear materials. Testing of complete footwear. Measurement of the strength of stitched seams in upper and lining materials
BS 5852 2006-03	Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources
ASTM B 117 2019	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM D 2240 2015	Standard Test Method for Rubber Property Durometer Hardness
ASTM F 2913 2019	Standard Test Method for Measuring the Coefficient of Friction for Evaluation of Slip Performance of Footwear and Test Surfaces/ Flooring Using a Whole Shoe Tester
SATRA TM 1 2021-04	Thickness of leather and insole materials
SATRA TM 20 2017-07	Lateral impact test for shoe heels

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SATRA TM 21 2017-07	Fatigue test for shoe heels
SATRA TM 25 2020-02	Vamp flex test - resistance to creasing and cracking
SATRA TM 30 2017-04	Tear strength - trouser leg method
SATRA TM 31 2021-11	Abrasion resistance - Martindale method
SATRA TM 55 1999-03	Flexing resistance of upper materials - Bally flexometer
SATRA TM 60 2020-04	Ross flex test - resistance to cut growth on flexing
SATRA TM 92 2016-11	Resistance of footwear to flexing
SATRA TM 94 2018-02	Breaking force and extension at break of shoe laces
SATRA TM 108 2021-04	Strength of top-piece attachment
SATRA TM 113 1996-12	Measurement of the strength of attachment of heels to footwear and the backpart rigidity of such footwear
SATRA TM 117 1992-12	Attachment strength of decorative bows
SATRA TM 118 1992-08	Strength of sandal toe posts
SATRA TM 120 2021-06	Strength of attachment of straps and nailed or stapled uppers
SATRA TM 141 1994-07	Breaking force of buckles - three point bending test
SATRA TM 144 2021-03	Friction (slip resistance) of footwear and floorings

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SATRA TM 149 2021-12	Strength of eyelet facings and other laced fastenings
SATRA TM 154 2018-03	Shoe lace to shoe lace and shoe lace to lace carrier abrasion
SATRA TM 161 2004-11	Bennewart flex test - resistance to cut growth on flexing
SATRA TM 165 1992-11	Tab strength
SATRA TM 174 2016-11	Abrasion resistance - rotating drum method
SATRA TM 180 2016-11	Measurement of the strength of stitched seams in upper and lining materials
SATRA TM 181 2017-07	Strength of buckle and strap attachments
SATRA TM 205 2016-08(2017)	Hardness of rubber, polyurethane and plastics - durometer method
SATRA TM 310 2020-12	Atmospheric sulphide tarnishing and salt water corrosion
SATRA TM 404 2020-01	Rapid sole adhesion test - for complete footwear
SATRA TM 411 2019-07	Peel strength of footwear sole bonds

3 Tests according to the specifications of the United States Consumer Product Safety Commission, CPSC

3.1 Tests on toys and infant articles according to the specifications of the United States Consumer Product Safety Commission, CPSC

16 CFR PART 1500.48 2018-01	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.
16 CFR PART 1500.49 2018-01	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.

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16 CFR PART 1500.51 2018-01	Test methods for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less.
16 CFR PART 1500.52 2018-01	Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age.
16 CFR PART 1500.53 2018-01	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age.
16 CFR PART 1501 2018-01	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.

3.2 Tests on flammable articles according to the specifications of the United States Consumer Product Safety Commission, CPSC

16 CFR Part 1610 2008-10	Standard for the Flammability of Clothing Textiles
16 CFR Part 1630 2018-01	Standard for the Surface Flammability of Carpets and Rugs (FF1-70)
16 CFR Part 1631 2018-01	Standard for the Surface Flammability of Small Carpets and Rugs (FF 2-70)

Abbreviations used:

AATCC TM	Test Method of American Association of Textile Chemists and Colorists
AATCC TS	Technical Supplement of American Association of Textile Chemists and Colorists
ASTM	ASTM International, formerly known as the American Society for Testing and Materials
CAN/CGSB	National Standard of Canada
CFR	Code of Federal Regulations (USA)
CPSC	Consumer Product Safety Commission (USA)
DIN	Deutsches Institut für Normung e.V. - German institute for standardization
EN	Europäische Norm - European Standard
GB/T	National Standard of the People's Republic of China
GS	Geprüfte Sicherheit - Tested Safety
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
SATRA TM	Test Methods from SATRA Technology
SOP-QM...	In-house-method of Hohenstein India Pvt. Ltd.