

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-21147-01-00 according to ISO/IEC 17025:2017

Period of validity: 24.09.2020 to 21.03.2024

Date of issue: 24.09.2020

Holder of certificate:

Hohenstein India Pvt. Ltd.
Plot No. 33, Udyog Vihar Phase - 4,
Gurugram, Haryana -122015 (INDIA)

Tests in the fields:

tests on fibers, yarns, fabrics, clothing and leather in the field of textile technology;
mechanical and physical tests for safety of toys;
chemical tests of textile products, textile accessories and leather;
chemical tests of dyes, pigments, inks, printing auxiliaries and chemicals;
tests on toys, infant products and flammability tests according to the specifications of the United States Consumer Product Safety Commission (CPSC);
determination of organic components according to the specifications of the United States Consumer Product Safety Commission (CPSC);
sample preparation and determination of lead in metal and non-metal products for children and adults in colours and coloured surfaces 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.

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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-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-C10 2007	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)
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)

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DIN EN ISO 105-G03 1997	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 53160-1 2010-10	Determination of the colour fastness of articles for common use - Part 1: Resistance to artificial saliva
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 2013	Colorfastness to Perspiration
AATCC TM 16.3 2014	Colorfastness to Light: Xenon-Arc

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AATCC TM 61 2013	Colorfastness to Laundering: Accelerated
AATCC TM 104 2014	Colorfastness to Water Spotting
AATCC TM 106 2013	Colorfastness to Water: Sea
AATCC TM 107 2013	Colorfastness to Water
AATCC TM 109 2016	Colorfastness to Ozone in the Atmosphere under Low Humidities
AATCC TM 116 2013	Colorfastness to Crocking: Rotary Vertical Crockmeter Method
AATCC TM 117 2013	Colorfastness to Heat: Dry (Excluding Pressing)
AATCC TM 125 2013	Colorfastness to Perspiration and Light
AATCC TM 132 2013	Colorfastness to Drycleaning
AATCC TM 133 2013	Colorfastness to Heat: Hot Pressing
AATCC TM 162 2011	Colorfastness to Water: Chlorinated Pool
AATCC TM 163 2013	Colorfastness: Dye Transfer in Storage; Fabric-to-Fabric
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

1.2 Physical tests

ISO 2313 1972-11	Textiles; Determination of the recovery from creasing of a horizontally folded specimen of fabric by measuring the angle of recovery
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 2005-06	Textiles - Determination of spirality after laundering - Part 2: Woven and knitted fabrics
ISO 16322-3 2005-06	Textiles - Determination of spirality after laundering - Part 3: Woven and knitted garments
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 2411 2018-02	Rubber- or plastics-coated fabrics - Determination of coating adhesion (ISO 2411:2017)
DIN EN ISO 3175-2 2018-04	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)
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)

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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 – Dome 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 2001-08	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 1: Pilling box method (ISO 12945-1:2000)
DIN EN ISO 12945-2 2000-11	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method (ISO 12945-2:2000)
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 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)

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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)
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 1999-10	Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (ISO 13938-1:1999)
DIN EN ISO 13938-2 1999-10	Textiles - Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:1999)
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 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 14704-1 2005-07	Determination of the elasticity of fabrics - Part 1: Strip tests

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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
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 2017	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

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ASTM D 1424 2013	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
ASTM D 1907/D 1907M 2018	Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method
ASTM D 2061 2013	Standard Test Methods for Strength Tests for Zippers
ASTM D 2062 2009	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 2008	Standard Test Method for Stretch Properties of Knitted Fabrics Having Low Power
ASTM D 2724 2011	Standard Test Methods for Bonded, Fused, and Laminated Apparel Fabrics
ASTM D 3107 2011	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 2013	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 2012	Standard Test Method for Bow and Skew in Woven and Knitted Fabrics

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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)
ASTM D 4846 2004	Standard Test Method for Resistance to Unsnapping of Snap Fasteners
ASTM D 4964 2004	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 2013	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
ASTM D 5035 2015	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 1988-09	Methods of test for knitted fabrics

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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
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 2018-08	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 Tests according to the specifications of the United States Consumer Product Safety Commission, CPSC

2.1 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.
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.

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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.

2.2 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)

3 Chemical tests on textile products and textile accessories and leather

3.1 Physical-chemical tests

ISO 4045 2018-05	Leather - Chemical tests - Determination of pH and difference figure
DIN EN ISO 3071 2006-05	Textiles - Determination of pH of aqueous extract (ISO 3071:2005)
AATCC TM 81 2016	pH of the Water-Extract from Wet Processed Textiles
ASTM D 2810 2018	Standard Test Method for pH of Leather

3.2 Quantitative determination of fibre mixtures by gravimetry

DIN EN ISO 1833-1 2011-01	Textiles - Quantitative chemical analysis - Part 1: General principles of testing (ISO 1833-1:2006 Cor 1:2009)
DIN EN ISO 1833-2 2011-01	Textiles - Quantitative chemical analysis - Part 2: Ternary fibre mixtures (ISO 1833-2:2006)
DIN EN ISO 1833-3 2011-01	Textiles - Quantitative chemical analysis - Part 3: Mixtures of acetate and certain other fibres (method using acetone) (ISO 1833-3:2006)
DIN EN ISO 1833-4 2017-12	Textiles - Quantitative chemical analysis - Part 4: Mixtures of certain protein fibres and certain other fibres (method using hypochlorite) (ISO 1833-4:2017)
DIN EN ISO 1833-5 2011-01	Textiles - Quantitative chemical analysis - Part 5: Mixtures of viscose, cupro or modal and cotton fibres (method using sodium zincate) (ISO 1833-5:2016)
DIN EN ISO 1833-6 2011-01	Textiles - Quantitative chemical analysis - Part 6: Mixtures of viscose or certain types of cupro or modal or lyocell and cotton fibres (method using formic acid and zinc chloride) (ISO 1833-6:2007)
DIN EN ISO 1833-7 2017-12	Textiles - Quantitative chemical analysis - Part 7: Mixtures of polyamide and certain other fibres (method using formic acid) (ISO 1833-7:2017)
DIN EN ISO 1833-8 2011-01	Textiles - Quantitative chemical analysis - Part 8: Mixtures of acetate and triacetate fibres (method using acetone) (ISO 1833-8:2006)
DIN EN ISO 1833-9 2011-01	Textiles - Quantitative chemical analysis - Part 9: Mixtures of acetate and triacetate fibres (method using benzyl alcohol) (ISO 1833-9:2010)
DIN EN ISO 1833-11 2017-12	Textiles - Quantitative chemical analysis - Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid) (ISO 1833-11:2017)
DIN EN ISO 1833-12 2011-01	Textiles - Quantitative chemical analysis - Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastanes and certain other fibres (method using dimethylformamide) (ISO 1833-12:2006)
DIN EN ISO 1833-14 2011-01	Textiles - Quantitative chemical analysis - Part 14: Mixtures of acetate and certain chlorofibres (method using acetic acid) (ISO 1833-14:2006)

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DIN EN ISO 1833-16 2011-01	Textiles - Quantitative chemical analysis - Part 16: Mixtures of polypropylene fibres and certain other fibres (method using xylene) (ISO 1833-16:2006)
DIN EN ISO 1833-17 2011-01	Textiles - Quantitative chemical analysis - Part 17: Mixtures of chlorofibres (homopolymers of vinyl chloride) and certain other fibres (method using sulfuric acid) (ISO 1833-17:2006)
DIN EN ISO 1833-18 2011-01	Textiles - Quantitative chemical analysis - Part 18: Mixtures of silk and wool or hair (method using sulfuric acid) (ISO 1833-18:2006)
DIN EN ISO 1833-22 2013-07	Textiles - Quantitative chemical analysis - Part 22: Mixtures of viscose or certain types of cupro or modal or lyocell and flax fibres (method using formic acid and zinc chloride) (ISO 1833-22:2013)
BS 4407 1988-07	Methods for quantitative analysis of fibre mixtures
AATCC TM 20 2013	Fiber Analysis: Qualitative
AATCC TM 20A 2017	Fiber Analysis: Quantitative

3.3 Element determination with ICP/MS

DIN EN ISO 17072-1 2011-06	Leather - Chemical determination of metal content - Part 1: Extractable metals (ISO 17072-1:2011)
DIN EN ISO 17072-2 2011-06	Leather - Chemical determination of metal content - Part 2: Total metal content (ISO 17072-2:2011)
DIN EN 16711-1 2016-02	Textiles - Determination of metal content - Part 1: Determination of metals using microwave digestion
DIN EN 16711-2 2016-02	Textiles - Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution
CPSC-CH-E1001-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1002-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products

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CPSC-CH-E1003-09.1
2011-02 Standard Operating Procedure for Determining Lead (Pb) in Paint and other Similar Surface Coatings

3.4 Gas chromatography

DIN EN 12673
1999-05 Water quality- Gas chromatographic determination of some selected chlorophenols in water
(Modification: *Matrix only eluates of fibre, textile and leather*)

DIN EN 17132
2019-09 Textiles and textile products - Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatograph

DIN EN 17137
2019-02 Textiles - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes

DIN EN ISO 11890-2
2013-07 Paints and varnishes - Determination of volatile organic compound (VOC) content - Part 2: Gas-chromatographic method
(ISO 11890-2:2013)

DIN EN ISO 14362-1
2017-05 Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
(ISO 14362-1:2017)

DIN EN ISO 14362-3
2017-05 Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene
(ISO 14362-3:2017)

DIN EN ISO 14389
2014-10 Textiles - Determination of the phthalate content - Tetrahydrofuran method (ISO 14389:2014)

DIN EN ISO 17070
2015-05 Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content (ISO 17070:2015)

DIN EN ISO 17234-1
2015-07 Leather - Chemical tests for the determination of certain azo colorants in dyed leather - Part 1: Determination of certain aromatic amines derived from azo colorants (ISO 17234-1:2015)

DIN EN ISO 17234-2
2011-06 Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene (ISO 17234-2:2011)

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DIN EN ISO 18219 2016-02	Leather- Determination of chlorinated hydrocarbons in leather- chromatographic method for short chain chlorinated paraffins (SCCP) (ISO 18219:2015) <i>(Modification: Determination of short chain chlorinated paraffins (SCCP) in fibres, textiles and leather extracts additional testing of medium chain chlorinated paraffins (MCCP))</i>
DIN EN ISO 23161 2011-10	Soil quality - Determination of selected organotin compounds - Gas-chromatographic method (ISO 23161:2009)
DIN CEN ISO/TS 16186 2012-12	Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylfumarate (DMFU) in footwear materials (ISO/TS 16186:2012)
DIN 54232 2010-08	Textiles - Determination of the content of bonds based on chlorobenzene and chlorotoluene
AfPS GS 2014:01 PAK 2014-08	Product Safety Commission (Ausschuss für Produktsicherheit) Testing and assessment of polycyclic aromatic hydrocarbons-(PAHs) in the course of awarding the GS mark - Pursuant to article 21(1) no. 3 of the German Product Safety Act (ProdSG)
CPSC-CH-C1001-09.4 2018-01	Standard Operating Procedure for Determination of Phthalates

3.5 Liquid chromatography

DIN EN ISO 14362-1 2017-05	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres (ISO 14362-1:2017)
DIN EN ISO 14362-3 2017-05	Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (ISO 14362-3:2017)
DIN EN ISO 17226-1 2019-04	Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography (ISO 17226-1:2008)

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DIN EN ISO 18254-1 2016-09	Textiles - Method for the detection and determination of alkylphenolethoxylates (APEO) - Part 1: Method using HPLC-MS (ISO 18254-1:2016) (Modification: <i>additional determination of alkylphenols; alternative standards; calculation</i>)
DIN 38414-14 2011-08	Determination of selected polyfluorinated compounds (PFC) in sludge, compost and soil Method using liquid chromatography and mass spectrometric detection (LC / MS) (Modification: <i>Matrix only eluates of textile and leather</i>)
DIN 54231 2005-11	Textiles - Detection of disperse dyestuffs
CEN/TS 15968 2010	Determination of extractable perfluorooctanesulphonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams - Method for sampling, extraction and analysis by LC-MS/MS

3.6 Photometry

DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method) (ISO 14184-1:2011)
DIN EN ISO 17075-1 2017-05	Leather - Chemical tests - Determination of chromium(VI) content (Modification: <i>Determination in perspiration eluates of textiles</i>) (ISO 17075-1:2017)
JIS L 1041 2011-07	Test methods for resin finished textiles Chapter 8: Free formaldehyde test Pursuant to the Japanese Harmful Substance-Containing Household Products Control Law No. 112

3.7 Qualitative Tests

SOP-QM-11.IN.02.A5.010 2018-12	Qualitative determination of Formaldehyde in textile accessories
SOP-QM-11.IN.03.082 2018-12	Beilstein-Test: Testing for halogenated-compounds
SOP-QM-11.IN.02.A5.020 2019-01	Identification of polymers in plastic and coating materials by FT-IR

4 Chemical tests of dyes, pigments, inks, printing auxiliaries and chemicals

4.1 Liquid chromatography

DIN 38414-14
2011-08

Determination of selected polyfluorinated compounds (PFC) in sludge, compost and soil Method using liquid chromatography and mass spectrometric detection (LC / MS)
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals*)

DIN 54231
2005-11

Textiles - Detection of disperse dyestuffs
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals*)

DIN EN ISO 17226-1
2019-04

Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography (ISO 17226-1:2018)
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals*)

DIN EN ISO 18254-1
2016-09

Textiles - Method for the detection and determination of alkylphenolethoxylates (APEO) - Part 1: Method using HPLC-MS (ISO 18254-1:2016)
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals; alternative standards; calculation*)

4.2 Element determination with ICP/MS

DIN EN 16711-1
2016-02

Textiles - Determination of metal content - Part 1: Determination of metals using microwave digestion
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals*)

4.3 Gas chromatography

DIN EN 12673
1999-05

Water quality- Gas chromatographic determination of some selected chlorophenols in water
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals*)

DIN EN 17132
2019-09

Textiles and textile products - Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatograph
(Modification: *Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals*)

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DIN EN 17137 2019-02	Textiles - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes (Modification: <i>Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals</i>)
DIN EN ISO 14362-1 2017-05	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres (ISO 14362-1:2017) (Modification: <i>Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals</i>)
DIN EN ISO 14362-3 2017-05	Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (ISO 14362-3:2017) (Modification: <i>Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals</i>)
DIN EN ISO 14389 2014-10	Textiles - Determination of the phthalate content - Tetrahydrofuran method (ISO 14389:2014) (Modification: <i>Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals</i>)
DIN EN ISO 18219 2016-02	Leather- Determination of chlorinated hydrocarbons in leather- chromatographic method for short chain chlorinated paraffins (SCCP) (ISO 18219:2015) (Modification: <i>Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals</i>)
DIN EN ISO 23161 2019-04	Soil quality - Determination of selected organotin compounds - Gas-chromatographic method (ISO 23161:2018) (Modification: <i>Matrix only Dyes, pigments, inks, printing auxiliaries and chemicals</i>)

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

5.1 Sample preparation and determination of lead in metal and non-metal products for children and adults, in colours and coloured surfaces according to the specifications of the United States Consumer Product Safety Commission, CPSC

CPSC-CH-E1001-08.3
2012-11 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry) (Modification: *Determination according to DIN EN ISO 17294-2 or DIN 38406-6*)

CPSC-CH-E1002-08.3
2012-11 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products (Modification: *Determination according to DIN EN ISO 17294-2 or DIN 38406-6*)

CPSC-CH-E1003-09.1
2011-02 Standard Operating Procedure for Determining Lead (Pb) in Paint and other Similar Surface Coatings (Modification: *Determination according to DIN EN ISO 17294-2 or DIN 38406-6*)

5.2 Determination of organic compounds according to the specifications of the United States Consumer Product Safety Commission, CPSC

CPSC-CH-C1001-09.4
2018-01 Standard Operating Procedure for Determination of Phthalates

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
AfPS	Product Safety Commission (Ausschuss für Produktsicherheit)
ASTM	ASTM International, formerly known as the American Society for Testing and Materials
CFR	Code of Federal Regulations (USA)
CPSC	Consumer Product Safety Commission (USA)
JIS	Japan Industrial Standard
SOP-QM...	In-house-method of Hohenstein India Pvt. Ltd.