

## Deutsche Akkreditierungsstelle GmbH

### Annex to the Accreditation Certificate D-PL-14563-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from: 14.08.2020**

Date of issue: 14.08.2020

Holder of certificate:

**Prüfinstitut HANSECONTROL GmbH  
Schleidenstraße 1, 22083 Hamburg**

Tests in the fields:

**chemical tests on commodity goods, toys, leather, textiles, shoes and hardlines;  
selected chemical tests according to the United States Consumer Product Safety Improvement Act (CPSIA 2008);  
migration tests and sensory tests of materials and articles in contact with food as well as other commodity goods;  
mechanical and technological tests, functional and usability tests as well as color fastness tests on commodity goods, toys, leather, textiles and shoes;  
Tests for the qualitative and quantitative determination of fiber textiles**

**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.**

**Within the given testing field marked the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following,**

- 1) the free choice of standard or equivalent testing methods.**
- 2) the modification, development and refinement of testing methods.**

**The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.**

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.  
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

**Annex to the accreditation certificate D-PL-14563-01-00**

**1 Physical testing on commodity goods**

**1.1 Tests for colour fastness**

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, EN ISO 105-B02:2014)
DIN EN ISO 105-B04 1997-05	Textiles - Tests for colour fastness - Part B04: Colour fastness to artificial weathering: Xenon arc fading lamp test (ISO 105-B04:1994, EN ISO 105-B04:1997)
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, EN 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, EN 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, EN 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, EN ISO 105-C09:2003)
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, EN ISO 105-C10:2007)
DIN EN ISO 105-D01 2010-10	Textiles - Tests for colour fastness - Part D01: Colour fastness to dry cleaning using perchloroethylene solvent (ISO 105-D01:2010, EN ISO 105-D01:2010)
DIN EN ISO 105-D02 2016-12	Textiles - Tests for colour fastness - Part D02: Colour fastness to rubbing: Organic solvents (ISO 105-D02:2016, EN ISO 105-D02:2016)
DIN EN ISO 105-E01 2013-06	Textiles - Tests for colour fastness - Part E01: Colour fastness to water (ISO 105-E01:2013, EN ISO 105-E01:2013)

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DIN EN ISO 105-E02 2013-06	Textiles - Tests for colour fastness - Part E02: Colour fastness to sea water (ISO 105-E02:2013, EN 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, EN 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, EN 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, EN 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, EN 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, EN ISO 105-E07:2010)
DIN EN ISO 105-J01 1999-09	Textiles - Tests of colour fastness - Part J01: General principles for measurement or surface colour (ISO 105-J01:1997, EN ISO 105-J01:1999)
DIN EN 20105-N01 1995-03	Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite (ISO 105-N01:1993, EN 20105-N01:1995)
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, EN ISO 105-P01:1995)
DIN EN ISO 105-X05 1997-05	Textiles - Tests for colour fastness - Part X05: Colour fastness to organic solvents (ISO 105-X05:1994, EN ISO 105-X05:1997)
DIN EN ISO 105-X11 1996-10	Textiles - Tests for colour fastness - Part X11: Colour fastness to hot pressing (ISO 105-X11:1994, EN ISO 105-X11:1996)
DIN EN ISO 105-X12 2016-11	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12:2016, EN ISO 105-X12:2016)
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, EN ISO 105-X18:2007)
DIN EN 646 2006-07	Paper and board intended to come into contact with foodstuffs - Determination of colour fastness of dyed paper and board (EN 646:2006)

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DIN EN ISO 4892-2 2013-06	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 4892-2:2013, EN ISO 4892-2:2013)
DIN EN ISO 11640 2013-05	Leather - Tests for colour fastness - Colour fastness to cycles of to- and-fro rubbing (ISO 11640:2012, EN ISO 11640:2012)
DIN EN ISO 11641 2013-02	Leather - Tests for colour fastness - Colour fastness to perspiration (ISO 11641:2012, EN ISO 11641:2012)
DIN EN ISO 11642 2013-02	Leather - Tests for colour fastness - Colour fastness to water (ISO 11642:2012, EN ISO 11642:2012)
DIN EN ISO 11643 2009-10	Leather - Tests for colour fastness - Colour fastness of small samples to solvents (ISO 11643:2009, EN ISO 11643:2009)
DIN EN ISO 15700 1999-10	Leather - Tests for colour fastness - Colour fastness to water spotting (ISO 15700:1998, EN ISO 15700:1999)
DIN EN ISO 15702 1999-10	Leather - Tests for colour fastness - Colour fastness to machine washing (ISO 15702:1998, EN ISO 15702:1999)
DIN EN ISO 15703 1999-10	Leather - Tests for colour fastness - Colour fastness to mild washing (ISO 15703:1998, EN ISO 15703:1999)
DIN 53160-1 2010-10	Determination of the colourfastness of articles for common use - Part 1: Test with artificial saliva
BVL B 82.92-3 2011-12	Determination of the colourfastness of articles for common use - Part 1: Test with artificial saliva (DIN 53160-1:2010-10)
DIN 53160-2 2010-10	Determination of the colourfastness of articles for common use - Part 2: Test with artificial sweat
BVL B 82.02-13 2011-12	Determination of the colourfastness of articles for common use - Part 2: Test with artificial sweat (DIN 53160-2:2010-10)
DIN 54056 1985-07	Testing of colour fastness of textiles; determination of colour fastness of dyeings and prints to sublimation in storage
BVL B 82.10-1 2011-12	Analysis of commodity goods - Testing of coloured children's toys with respect to their resistance to saliva and perspiration (DIN 53160:1974-06)
SOP-TP-695 2009-04	Tests for colour fastness from cleaning agents according to IKW recommendation

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SOP-TP-711 Evaluation of the color fastness using SmartScan software  
2014-08

**1.2 Tensile testing**

DIN EN ISO 1421 Rubber- or plastics-coated fabrics - Determination of tensile strength  
2017-03 and elongation at break  
(ISO 1421:2016, EN ISO 1421:2016)

DIN EN 1875-3 Rubber- or plastics-coated fabrics - Determination of tear strength -  
1998-02 Part 3: Trapezoidal method  
(EN 1875-3:1997)

DIN EN ISO 3376 Leather - Physical and mechanical tests - Determination of tensile  
2012-03 strength and percentage extension  
(ISO 3376:2011, EN ISO 3376:2011)

DIN EN ISO 3377-1 Leather - Physical and mechanical tests - Determination of tear load -  
2012-03 Part 1: Single edge tear  
(ISO 3377-1:2011, EN ISO 3377-1:2011)

DIN EN ISO 3377-2 Leather - Physical and mechanical tests - Determination of tear load -  
2016-07 Part 2: Double edge tear  
(ISO 3377-2:2016, EN ISO 3377-2:2016)

DIN EN ISO 4674-1 Rubber- or plastics-coated fabrics - Determination of tear resistance -  
2017-03 Part 1: Constant rate of tear methods  
(ISO 4674-1:2016, EN ISO 4674-1:2016)

DIN EN ISO 4674-2 Rubber or plastics-coated fabrics - Determination of tear resistance -  
1998-10 Part 2: Ballistic pendulum method  
(ISO 4674-2:1998, EN ISO 4674-2:1998)

DIN EN 29073-3 Textiles; test method for nonwovens; part 3: determination of tensile  
1992-08 strength and elongation  
(ISO 9073-3:1989, EN 29073-3:1992)

DIN EN ISO 9073-4 Textiles - Test methods for nonwovens - Part 4: Determination of tear  
1997-09 resistance (ISO 9073-4:1997, EN ISO 9073-4:1997)

DIN EN ISO 9073-18 Textiles - Test methods for nonwovens - Part 18: Determination of  
2008-08 breaking strength and elongation of nonwoven materials using the  
grab tensile test (ISO 9073-18:2007, EN ISO 9073-18:2008)

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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, EN 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, EN 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, EN 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, EN 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, EN 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, EN 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, EN 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, EN 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, EN 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 test) (ISO 13937-4:2000, EN ISO 13937-4:2000)
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, EN ISO 13938-2:1999)
DIN EN 14704-1 2005-07	Determination of the elasticity of fabrics - Part 1: Strip tests (EN 14704-1:2005)

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DIN EN 16732 2016-05	Slide fasteners (zips) - Specification (EN 16732:2015)
DIN 53835-13 1983-11	Testing of textiles; determination of the elastic behaviour of textile fabrics by a single application of tensile load between constant extension limits
BS 3084 2006-04-28	Slide fasteners (Zips). Specification

**1.3 Functional testing**

DIN EN 20811 1992-08	Determination of resistance of textile fabrics to water penetration; hydrostatic pressure test (ISO 811:1981, EN 20811:1992)
DIN EN ISO 4920 2012-12	Textile fabrics - Determination of resistance to surface wetting (spray test) (ISO 4920:2012, EN ISO 4920:2012)
DIN EN ISO 5470-2 2003-10	Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 2: Martindale abrader (ISO 5470-2:2003, EN ISO 5470-2:2003)
DIN EN ISO 9073-15 2008-08	Textiles - Test methods for nonwovens - Part 15: Determination of air permeability (ISO 9073-15:2007, EN ISO 9073-15:2008)
DIN EN ISO 9073-16 2009-01	Textiles - Test methods for nonwovens - Part 16: Determination of resistance to penetration by water (hydrostatic pressure) (ISO 9073-16:2007, EN ISO 9073-16:2008)
DIN EN ISO 9073-17 2008-09	Textiles - Test methods for nonwovens - Part 17: Determination of water penetration (spray impact) (ISO 9073-17:2008, EN ISO 9073-17:2008)
DIN EN ISO 9237 1995-12	Textiles - Determination of permeability of fabrics to air (ISO 9237:1995, EN ISO 9237:1995)
DIN EN ISO 11092 2014-12	Textiles - Physiological effects - Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test) (ISO 11092:2014, EN ISO 11092:2014)
DIN EN ISO 14268 2013-03	Leather - Physical and mechanical tests - Determination of water vapour permeability (ISO 14268:2012, EN ISO 14268:2012)
DIN 53923 1978-01	Testing of textiles; determination of water absorption of textile fabrics

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AATCC Test Method 22 2014	Water Repellency: Spray Test
AATCC Test Method 79 2014	Absorbency of Textiles
ASTM E96 / E96M 2016	Standard Test Methods for Water Vapor Transmission of Materials
JIS L 1099 2012-03-21	Testing methods for water vapour permeability of textiles

**1.4 Abrasion and pilling testing**

DIN EN ISO 5470-2 2003-10	Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 2: Martindale abrader (ISO 5470-2:2003, EN ISO 5470-2:2003)
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, EN 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, EN ISO 12945-2:2000)
DIN EN ISO 12947-1 2007-04	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 1: Martindale abrasion testing apparatus (ISO 12947-1:1998, EN ISO 12947-1:1998)
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, EN ISO 12947-2:2016)
DIN EN ISO 12947-3 2007-04	Textiles - Determination of abrasion resistance of fabrics by the Martindale method - Part 3: Determination of mass loss (ISO 12947-3:1998, EN ISO 12947-3:1998)
DIN EN ISO 12947-4 2007-04	Textiles - Determination of abrasion resistance of fabrics by the Martindale method - Part 4: Assessment of appearance change (ISO 12947-4:1998, EN ISO 12947-4:1998)
ASTM D3512 / D3512M 2016	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester

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**1.5 Fibre identification**

DIN EN ISO 1833-1 2011-01	Textiles - Quantitative chemical analysis - Part 1: General principles of testing (ISO 1833-1:2006, EN ISO 1833-1:2010)
DIN EN ISO 1833-2 2011-01	Textiles - Quantitative chemical analysis - Part 2: Ternary fibre mixtures (ISO 1833-2:2006, EN ISO 1833-2:2010)
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, EN ISO 1833-3:2010)
DIN EN ISO 1833-4 2011-01	Textiles - Quantitative chemical analysis - Part 4: Mixtures of certain protein and certain other fibres (method using hypochlorite) (ISO 1833-4:2006, EN ISO 1833-4:2010)
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 1833-5:2006, EN ISO 1833-5:2010)
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, EN ISO 1833-6:2010)
DIN EN ISO 1833-7 2011-01	Textiles - Quantitative chemical analysis - Part 7: Mixtures of polyamide and certain other fibres (method using formic acid) (ISO 1833-7:2006, EN ISO 1833-7:2010)
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, EN ISO 1833-8:2010)
DIN EN ISO 1833-9 2011-01	Textiles - Quantitative chemical analysis - Part 9: Mixtures of acetate and triacetate fibres (method using benzyl alcohol) (ISO 1833-9:2006, EN ISO 1833-9:2010)
DIN EN ISO 1833-10 2011-01	Textiles - Quantitative chemical analysis - Part 10: Mixtures of triacetate or polylactide and certain other fibres (method using dichloromethane) (ISO 1833-10:2006, EN ISO 1833-10:2010)
DIN EN ISO 1833-11 2011-01	Textiles - Quantitative chemical analysis - Part 11: Mixtures of cellulose and polyester fibres (method using sulfuric acid) (ISO 1833-11:2006, EN ISO 1833-11:2010)

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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, EN ISO 1833-12:2010)
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, EN ISO 1833-14:2010)
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, EN ISO 1833-16:2010)
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, EN ISO 1833-18:2010)
DIN EN ISO 1833-21 2011-01	Textiles - Quantitative chemical analysis - Part 21: Mixtures of chlorofibres, certain modacrylics, certain elastanes, acetates, triacetates and certain other fibres (method using cyclohexanone) (ISO 1833-21:2006, EN ISO 1833-21:2010)
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, EN ISO 1833-22:2013)

**1.6 Determination of construction and fibre**

DIN EN 1773 1997-03	Textiles - Fabrics - Determination of width and length (EN 1773:1996)
DIN EN ISO 2286-1 2017-01	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 1: Method for determination of the length, width and net mass (ISO 2286-1:2016, EN ISO 2286-1:2016)
DIN EN ISO 2286-2 2017-01	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate (ISO 2286-2:2016, EN ISO 2286-2:2016)
DIN EN ISO 2286-3 2017-01	Rubber- or plastic-coated fabrics - Determination of roll characteristics - Part 3: Method for determination of thickness (ISO 2286-3:2016, EN ISO 2286-3:2016)

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DIN EN 1049-2 1994-02	Textiles; woven fabrics; construction; methods of analysis; part 2: determination of number of threads per unit length (ISO 7211-2:1984, EN 1049-2:1993)
DIN EN 29073-1 1992-08	Textiles; test method for nonwovens; part 1: determination of mass per unit area (ISO 9073-1:1989, EN 29073-1:1992)
DIN EN 12127 1997-12	Textiles - Fabrics - Determination of mass per unit area using small samples (EN 12127:1997)
DIN EN 14971 2006-04	Textiles - Knitted fabrics - Determination of number of stitches per unit length and unit area (EN 14971:2006)
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
DIN 53808-1 2003-01	Testing of textiles - Determination of length of fibres by measuring of individual fibres
DIN 53830-3 1981-05	Testing of textiles; determination of linear density of single and plied yarns; simple yarns and plied yarns, textured yarns, short length method
DIN 61101-1 1979-01	Weaves; general terms, basic weaves
SOP-TP-698 2006-11	Distinction of ring-spun and open end yarns through yarn structures and their characteristics

**1.7 Optical Evaluation**

DIN EN 22313 1992-08	Textiles; determination of the recovery form creasing of a horizontally folded specimen by measuring the angle of recovery (ISO 2313:1972, EN 22313:1992)
DIN EN ISO 3175-1 2010-08	Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 1: Assessment of performance after cleaning and finishing (ISO 3175-1:2010, EN ISO 3175-1:2010)

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DIN EN ISO 3175-2 2010-08	Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene (ISO 3175-2:2010, EN ISO 3175-2:2010)
DIN EN ISO 3759 2011-08	Textiles - Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change (ISO 3759:2011, EN ISO 3759:2011)
DIN EN ISO 5077 2008-04	Textiles - Determination of dimensional change in washing and drying (ISO 5077:2007, EN ISO 5077:2008)
DIN EN ISO 6330 2013-02	Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:2012, EN ISO 6330:2012)
ISO 7768 2009-05	Textiles - Test method for assessing the smoothness appearance of fabrics after cleansing
ISO 7770 2009-05	Textiles - Test method for assessing the smoothness appearance of seams in fabrics after cleansing
DIN 53856 2001-02	Testing of textiles - Determination of the mass portion of warp and weft
DIN 53890 1972-01	Testing of Textiles; Determination of the Crease Recovery Angle of Area-measured Textiles; Method Using an Air-dry Specimen with Horizontal Fold and Erected Free Limb
AATCC Test Method 88B 2014	Smoothness of Seams in Fabrics after Repeated Home Laundering
SOP-TP-685 2006-02	Determination of dimensional change of knitted fabrics
SOP-TP-693 2008-10	Determination of the seam torque /warpage after household laundering
SOP-TP-700 2016-05	Determination of single filaments, respectively the filament fineness
SOP-TP-709 2016-05	Determination of optical brighteners

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**1.8 Testing of shoes**

ISO 4643 1992-02 Annex B and C	Moulded plastics footwear; lined or unlined poly(vinyl chloride) boots for general industrial use; specification
DIN ISO 4649 2014-03	Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device (ISO 4649:2010)
DIN EN ISO 5402-1 2017-05	Leather - Determination of flex resistance - Part 1: Flexometer method (ISO 5402-1:2017, EN ISO 5402-1:2017)
DIN EN ISO 5402-2 2015-02	Leather - Determination of flex resistance - Part 2: Vamp flex method (ISO 5402-2:2015, EN ISO 5402-2:2015)
DIN EN ISO 10768 2010-12	Footwear - Test method for the determination of the resistance of elastic materials for footwear to repeated extension - Fatigue resistance (ISO 10768:2010, EN ISO 10768:2010)
DIN EN 12568 2010-10 Section 5.3.2	Foot and leg protectors - Requirements and test methods for toecaps and penetration resistant inserts (EN 12568:2010)
DIN EN 12770 2000-03	Footwear - Test methods for outsoles - Abrasion resistance (EN 12770:1999)
DIN EN ISO 13287 2013-02	Personal protective equipment - Footwear - Test method for slip resistance (ISO 13287:2012, EN ISO 13287:2012)
DIN EN ISO 17694 2016-10	Footwear - Test methods for uppers and lining - Flex resistance (ISO 17694:2016, EN ISO 17694:2016)
DIN EN 13780 2003-05	Touch and close fasteners - Determination of longitudinal shear strength (EN 13780:2003)
DIN EN ISO 17707 2005-10	Footwear - Test methods for outsoles - Flex resistance (ISO 17707:2005, EN ISO 17707:2005)
DIN EN ISO 17708 2003-10	Footwear - Test methods for whole shoe - Upper sole adhesion (ISO 17708:2003, EN ISO 17708:2003)
DIN EN ISO 19953 2004-10	Footwear - Test methods for heels - Resistance to lateral impact (ISO 19953:2004-07, EN ISO 19953:2004)

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DIN EN ISO 20344 2013-02	Personal protective equipment - Test methods for footwear (ISO 20344:2011, EN ISO 20344:2011)
ISO 20871 2001-12	Footwear - Test methods for outsoles - Abrasion resistance
DIN EN ISO 22776 2005-03	Footwear - Test methods for accessories: Touch and close fasteners - Shear strength before and after repeated closing (ISO 22776:2004, EN ISO 22776:2004)
DIN EN ISO 22777 2005-03	Footwear - Test methods for accessories: Touch and close fasteners - Peel strength before and after repeated closing (ISO 22777:2004, EN ISO 22777:2004)
DIN EN ISO 32100 2011-04	Rubber- or plastics-coated fabrics - Physical and mechanical tests - Determination of flex resistance by the flexometer method (ISO 32100:2010, EN ISO 32100:2010)
DIN 3415-1 1990-06	Textile touch and close fasteners; requirements
DIN SPEC 53264-1 2011-05	Footwear - Test methods - Determination of waterpassage - Part 1: Water basin method
SOP-TP-682 2011-08	Shoe size and inner span measurement
SOP-TP-756 2016-05	Testing the fit of footwear

**1.9 Other test methods**

DIN EN ISO 105-A01 2010-05	Textiles - Tests for colour fastness - Part A01: General principles of testing (ISO 105-A01:2010, EN ISO 105-A01:2010)
DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour (ISO 105-A02:1993, EN 20105-A02:1994)
DIN EN 20105-A03 1994-10	Textiles - Tests for colour fastness - Part A03: Grey scale for assessing staining (ISO 105-A03:1993, EN 20105-A03:1994)
DIN EN ISO 105-A04 1999-10	Textiles - Tests for colour fastness - Part A04: Method for the instrumental assessment of the degree of staining of adjacent fabrics (ISO 105-A04:1989, EN ISO 105-A04:1999)

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DIN EN ISO 105-A05 1997-07	Textiles - Tests for colour fastness - Part A05: Instrumental assessment of change in colour for determination of grey scale rating (ISO 105-A05:1996, EN ISO 105-A05:1997)
DIN EN ISO 139 2011-10	Textiles - Standard atmospheres for conditioning and testing (ISO 139:2005, EN ISO 139:2005)
DIN EN ISO 2231 1995-06	Rubber- or plastics-coated fabrics - Standard atmospheres for conditioning and testing (ISO 2231:1989, EN ISO 2231:1995)
DIN EN ISO 3758 2013-12	Textiles - Care labelling code using symbols (ISO 3758:2012, EN ISO 3758:2012)
DIN EN ISO 9073-6 2003-05	Textiles - Test methods for nonwovens - Part 6: Absorption (ISO 9073-6:2000, EN ISO 9073-6:2003)
DIN EN ISO 9073-8 1998-10	Textiles - Test methods for non-wovens - Part 8: Determination of liquid strike-through time (simulated urine) (ISO 9073-8:1995, EN ISO 9073-8:1998)
DIN EN ISO 9073-11 2005-03	Textiles - Test methods for nonwovens - Part 11 Run-off (ISO 9073-11:2002, EN ISO 9073-11:2004)
DIN EN ISO 9073-12 2005-03	Textiles - Test methods for nonwovens - Part 12: Demand absorbency (ISO 9073-12:2002, EN ISO 9073-12:2004)
DIN EN 12280-1 1998-01	Rubber- or plastic-coated fabrics - Accelerated ageing tests - Part 1: Heat ageing (EN 12280-1:1997)
DIN EN 12568 2010-10	Foot and leg protectors - Requirements and test methods for toecaps and penetration resistant inserts (EN 12568:2010)
DIN EN ISO 14419 2010-08	Textiles - Oil repellency - Hydrocarbon resistance test (ISO 14419:2010, EN ISO 14419:2010)
DIN EN 14465 2006-09	Textiles - Upholstery fabrics - Specification and methods of test (EN 14465:2003)
AATCC Test Method 118 2013	Oil Repellency: Hydrocarbon Resistance Test
ASTM D3938 2013	Standard Guide for Determining or Confirming Care Instructions for Apparel and Other Textile Products

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BS 4162 1983-03-31	Methods of test for buttons
BS 7907 2007-12-31	Code of practice for the design and manufacture of children's clothing to promote mechanical safety
DTB Verfahren 2008-04	DTB recommendation on the corrosion resistance of mechanical clothing components Hydrolysis ageing (water vapor test)
SOP-TP-616 2014-09	Determination of the moisture content of textiles under laboratory conditions (wet goods)
SOP-TP-708 2014-06	Determination of piece weight

**2 Chemical tests on consumer goods**

**2.1 Sample preparation**

**2.1.1 -Sample preparation by means of extraction <sup>1)</sup>**

EPA 3540C Revision 3 December 1996	SOXHLET EXTRACTION (Matrix: <i>Extracts from consumer goods</i> )
EPA 3541 Revision 0 September 1994	AUTOMATED SOXHLET EXTRACTION (Matrix: <i>Extracts from consumer goods</i> )
EPA 3545A Revision 1 February 2007	PRESSURIZED FLUID EXTRACTION (PFE) (Matrix: <i>Extracts from consumer goods</i> )

**2.1.2 Sample preparation-by means of acid hydrolysis <sup>1)</sup>**

EPA 3015A Revision 1 February 2007	MICROWAVE ASSISTED ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS (Matrix: <i>Digestion of consumer goods</i> )
EPA 3050B Revision 2 December 1996	ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS (Matrix: <i>Digestion of consumer goods</i> )

**-Translation-**



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EPA 3051A Revision 1 February 2007	MICROWAVE ASSISTED ACID DIGESTION OF SEDIMENTS, SLUDGES, SOILS, AND OILS (Matrix: <i>Digestion of consumer goods</i> )
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**2.1.3 Mechanical sample preparation <sup>1)</sup>**

DIN EN 62321-1 2014-02	Determination of certain substances in electrotechnical products - Part 1: Introduction and overview (IEC 62321-1:2013, EN 62321-1:2013, VDE 0042-1-1:2014-02)
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DIN EN 62321-2 2014-09	Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjointment and mechanical sample preparation (IEC 62321-2:2013, EN 62321-2:2014, VDE 0042-1-2:2014-09)
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**2.1.4 Sample preparation for the determination of nickel release**

DIN EN 12472 2009-09	Method for the simulation of wear and corrosion for the detection of nickel release from coated items (EN 12472:2005)
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**2.2 Determination of organic compounds in commodity goods by means of gas chromatography (GC/MS)**

**2.2.1 Determination of Flame retardants, Plasticizers, Polycyclic aromatic hydrocarbons and Fluorotelomer alcohols and -acrylates by means of gas chromatography (GC/MS) <sup>1)</sup>**

DIN EN ISO 14389 2014-10	Textiles - Determination of the phthalate content - Tetrahydrofuran method (ISO 14389:2014, EN ISO 14389:2014) (Matrix: <i>textiles, shoes and consumer goods. Extension to phthalate alternatives</i> )
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DIN EN ISO 17881-1 2016-09	Textiles - Determination of certain flame retardants - Part 1: Brominated flame retardants (ISO 17881-1:2016, EN ISO 17881-1:2016) (Deviation from the standard: <i>adjusted extraction. Matrix: textiles, shoes and consumer goods</i> )
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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, EN ISO 18219:2015) (Deviation from the standard: <i>Adjusted extraction. Matrix: textiles, shoes and consumer goods</i> )
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DIN EN 62321-6 2016-05	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS) (IEC 62321-6:2015, EN 62321-6:2015, VDE 0042-1-6:2016-05) (Deviation from the standard: <i>adjusted extraction. Matrix: textiles, shoes and consumer goods</i> )
AfPS GS 2014-01 PAK	Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAH) in the course of GS-Mark Certification
SOP-OC-535 2017-04	Determination of fluorotelomer alcohols and fluorotelomer acrylates in consumer products using PCI-GC/MS

**2.2.2 Determination of Chlorophenols, Tinorganic compounds, Dimethylfumarate, Pesticides and Herbicides by means of gas chromatography (GC/MS) <sup>1)</sup>**

DIN CEN ISO/TS 16179 2012-12	Footwear - Critical substances potentially present in footwear and footwear components - Determination of Organotin compounds in footwear materials (ISO/TS 16179:2012, CEN ISO/TS 16179:2012, DIN SPEC 1179:2012-12) (Deviation from the standard: <i>adjusted extraction. Matrix: textiles, shoes and consumer goods</i> )
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, CEN ISO/TS 16186:2012, DIN SPEC 3280:2012-12) (Deviation from the standard: <i>pre-test by headspace GC-MSD, quantification after extraction using GC/MSD; Matrix: textiles, shoes and consumer goods</i> )
DIN EN ISO 17070 2015-05	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content (ISO 17070:2015, EN ISO 17070:2015) (Deviation from the standard: <i>Accelerated solvent extraction (ASE) according to EPA 3545A, automated derivatisation. Extension to chloro methylphenols and o-phenylphenol</i> )

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SOP-OC-404, Annex 1:  
2017-06                      Determination of chlorophenols, o-phenylphenol and chloromethylphenols using gas chromatography / mass spectrometry according to DIN EN ISO 17070:2015-05 (modified) with alternative extraction (ultra sonic / KOH) and automated derivatisation with Gerstel MPS2

**2.2.3 Determination of volatile organic compounds by means of GC/MS <sup>2)</sup>**

DIN CEN ISO/TS 16189  
2013-12                      Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials (ISO/TS 16189:2013, DIN SPEC 52411:2013-12) (Deviation from the standard: *extension to further VOC. Matrix: textiles, shoes and consumer goods*).

DIN 54232  
2010-08                      Textiles - Determination of the content of bonds based on chlorobenzene and chlorotoluene

BVL B 80.32-1(EG)  
1981-11                      Determination of the vinylchloride monomer content in commodity goods (Deviation from standard: *equilibration at 80°C, analysis with GC/MS*)

SOP-OC-408  
2017-05                      Determination of dimethylformamide in commodity goods by means of headspace GC/MS

SOP-OC-524  
2017-06                      Volatile organic compounds in textile and material samples by means of Headspace/GC/MSD analysis

**2.2.4 GC/MS based screening tests**

SOP-OC-501  
2014-10                      Screening analysis in textile and material samples by means of Headspace/GC/MSD analysis

SOP-OC-502  
2014-10                      Screening analysis in textile and material samples by means of GC/MSD analysis

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**2.3 Determination of aromatic amines from Azo dyes and determination of free aromatic amines by means of GC/MS and LC/MS**

**2.3.1 Determination of aromatic amines from Azo dyes and determination of free aromatic amines by means of GC/MS <sup>2)</sup>**

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, EN ISO 17234-1:2015) (Deviation from the standard: <i>Purification by I/I extraction. (exception: 2,4-toluylendiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )
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, EN ISO 17234-2:2011) (Deviation from the standard: <i>Clean-up by I/I extraction.</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, EN ISO 14362-1:2017) (Deviation from the standard: <i>alternative solvent for extraction. Purification by I/I extraction. (exception: 2,4-toluylendiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</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, EN ISO 14362-3:2017) (Deviation from the standard: <i>Alternative solvent for extraction. Purification by I/I extraction.</i> )
BVL B 82.02-2 2013-01	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 (Deviation from the standard: <i>alternative solvent for extraction. (DIN EN 14362-1:2012-04)</i> <i>Purification by I/I extraction. (exception: 2,4-toluylendiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )

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BVL B 82.02-3 2016-07	Leather - Chemical tests for the determination of certain azo colorants in dyed leather - Part 1: Determination of certain aromatic amines derived from azo colorants (DIN EN ISO 17234-1:2015-07) (Deviation from the standard: <i>Purification by I/I extraction. (exception: 2,4-toluyldiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )
BVL B 82.02-9 2014-02	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene (DIN EN ISO 17234-2:2011-06) (Deviation from the standard: <i>Clean-up by I/I extraction.</i> )
BVL B 82.02-15 2013-01	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 (DIN EN 14362-3:2012-09) (Deviation from the standard: <i>Alternative solvent for extraction. Purification by I/I extraction.</i> )
SOP-OC-307 2016-10	Determination of free aromatic amines

**2.3.2 Determination of aromatic amines from Azo dyes and determination of free aromatic amines by means of LC/MS <sup>2)</sup>**

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, EN ISO 14362-1:2017) (Deviation from the standard: <i>alternative solvent for extraction. Purification by I/I extraction. (exception: 2,4-toluyldiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )
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, EN ISO 17234-1:2015) (Deviation from the standard: <i>Purification by I/I extraction. (exception: 2,4-toluyldiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )

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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, EN ISO 17234-2:2011) (Deviation from the standard: <i>Clean-up by I/I extraction.</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, EN ISO 14362-3:2017) (Deviation from the standard: <i>Alternative solvent for extraction. Purification by I/I extraction.</i> )
BVL B 82.02-2 2013-01	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 (DIN EN 14362-1:2012-04) (Deviation from the standard: <i>alternative solvent for extraction. Purification by I/I extraction. (exception: 2,4-toluyldiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )
BVL B 82.02-3 2016-07	Leather - Chemical tests for the determination of certain azo colorants in dyed leather - Part 1: Determination of certain aromatic amines derived from azo colorants (DIN EN ISO 17234-1:2015-07) (Deviation from the standard: <i>Purification by I/I extraction. (exception: 2,4-toluyldiamine, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, p-phenylenediamine)</i> )
BVL B 82.02-9 2014-02	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene (DIN EN ISO 17234-2:2011-06) (Deviation from the standard: <i>Clean-up by I/I extraction.</i> )
BVL B 82.02-15 2013-01	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 (DIN EN 14362-3:2012-09) (Deviation from the standard: <i>Alternative solvent for extraction. Purification by I/I extraction.</i> )
SOP-OC-307 2016-10	Determination of free aromatic amines

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**2.4 Determination of organic substances in commodity goods by means of liquid chromatography (LC/MS) <sup>1)</sup>**

**2.4.1 Determination of disperse dyes, preservatives and flame retardants by means of LC/MS/DAD and Determination of Formaldehyde by means of LC/DAD <sup>1)</sup>**

DIN EN ISO 13365 2011-04	Leather - Chemical tests - Determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography (ISO 13365:2011, EN ISO 13365:2011) (Deviation from the standard: <i>Extraction in organic solvent, extension to further preservatives, matrix: textiles, shoes and consumer products</i> )
DIN EN ISO 17226-1 2008-08	Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography (ISO 17226-1:2008, EN ISO 17226-1:2008)
DIN EN ISO 17881-2 2016-09	Textiles - Determination of certain flame retardants - Part 2: Phosphorus flame retardants (ISO 17881-2:2016, EN ISO 17881-2:2016) (Deviation from the standard: <i>adjusted extraction, detection by LC-MSD. Matrix: textiles, shoes and consumer goods</i> ).
DIN 54231 2005-11	Textiles - Detection of disperse dyestuffs (Deviation from the standard: <i>Extension to further dyestuffs</i> )
BVL B 82.02-10 2007-03	Testing of consumer products - Detection of disperse dyes in textiles (DIN 54231:2005-11)

**2.4.2 Determination of N-Nitrosamines, Alkylphenols, Alkylphenol ethoxylates, Bisphenols, perfluorinated surfactants and 2Mercaptobenzothiazole by means of LC/MS/MS and Determination of chlorinated paraffins by means of LC/TOF <sup>2)</sup>**

DIN EN ISO 18218-1 2015-11	Leather - Determination of ethoxylated alkylphenols - Part 1: Direct method (ISO 18218-1:2015, EN ISO 18218-1:2015) (Deviation from the standard: <i>Extension to Nonylphenol and Octylphenol. Adjusted extraction for plastic materials. Quantification by means of LC/MS/MS; Matrix: textiles, shoes and consumer goods</i> )
DIN EN ISO 18254-1 2016-09	Textiles - Method for the detection and determination of alkylphenoethoxylates (APEO) - Part 1: Method using HPLC-MS (ISO 18254-1:2016, EN ISO 18254-1:2016) (Deviation from the standard: <i>Extension to Nonylphenol and Octylphenol. Adjusted extraction for plastic materials. Quantification by means of LC/MS/MS; Matrix: textiles, shoes and consumer goods</i> )

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**Valid from: 14.08.2020**

Date of issue: 14.08.2020



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DIN EN 12868 2017-04	Child use and care articles - Methods for determining the release of N-Nitrosamines and N-nitrosatable substances from elastomer or rubber teats and soothers (EN 12868:2017) (Matrix: <i>textiles, shoes and consumer goods</i> )
DIN CEN/TS 15968 2010-11	Determination of extractable perfluorooctanesulfonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams - Method for sampling, extraction and analysis by LC-qMS or LC-tandem/MS (DIN SPEC 1038:2010-11) (Deviation from the standard: <i>Extracts from consumer goods, Extension to further fluorinated compounds</i> )
ASTM D7574 2016	Standard Test Method for Determination of Bisphenol A in Environmental Waters by Liquid Chromatography/Tandem Mass Spectrometry (Deviation from the standard: <i>Extension to 17 Bisphenols (Bisphenol S, A, C1, C2, F, T, P, AP, AF, M, B, E, Z, FL, PH, BP, G) in extracts from consumer goods</i> )
SOP-OC-503 2016-05	Determination of short-chained chloroparaffins (SCCP) in commodity goods by means LC-MS-TOF detection
SOP-OC-519 2016-05	Determination of 2-Mercaptobenzothiazene by means of LC-MS/MS

**2.5 Element Determination by means of ICP-OES <sup>1)</sup>**

CPSC-CH-E1001-08.1 June 21, 2010	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1001-08.3 November 15, 2012	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1002-08.1 June 21, 2010	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1002-08.3 November 15, 2012	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1003-09.1 February 25, 2011	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CPSC-CH-E1004-11 February 03, 2011	Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry

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EPA 1620 September, 1989	Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy and Atomic Absorption Spectroscopy ( <i>Determination of boron</i> )
ASTM E1613 2012	Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques

**2.6 Element determination by means of ICP-MS <sup>1)</sup>**

DIN EN ISO 17072-1 2011-06	Leather - Chemical determination of metal content - Part 1: Extractable metals (ISO 17072-1:2011, EN ISO 17072-1:2011)
DIN EN ISO 17294-2 2017-01	Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements including uranium isotopes (ISO 17294-2:2016, EN ISO 17294-2:2016) (Matrix: <i>measuring of acid digestions, extracts and migrates</i> )
DIN EN ISO 3613 2011-04	Metallic and other inorganic coatings - Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys - Test methods (ISO 3613:2010, EN ISO 3613:2010)
DIN EN 1811 2015-10	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin (EN 1811:2011)
DIN EN 16711-1 2016-02	Textiles - Determination of metal content - Part 1: Determination of metals using microwave digestion (EN 16711-1:2015)
DIN EN 16711-2 2016-02	Textiles - Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution (EN 16711-2:2015)
DIN EN 62321-4 2014-10	Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS (IEC 62321-4:2013, EN 62321-4:2014, VDE 0042-1-4:2014-10)

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DIN EN 62321-5 2014-10	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS (IEC 62321-5:2013, EN 62321-5:2014, VDE 0042-1-5:2014-10)
DIN 54233-2 2014-07	Testing of textiles - Determination of metals - Part 2: Determination of extractable metals by hydrochloric acid
DIN 54233-4 2014-07	Testing of textiles - Determination of metals - Part 4: Determination of extractable metals by synthetic salivary solution
EPA 6020A Revision 1 February 2007	INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY ( <i>Determination of Aluminum, Antimony, Arsenic, Barium, Beryllium, Lead, Boron, Cadmium, Chromium, Cobalt, Iron, Copper, Lithium, Manganese, Molybdenum, Nickel, Mercury, Selenium, Silver, Strontium, Thallium, Titanium, Vanadium, Zinc and Zirconium in Sample digests and/or in Migrates</i> )

**2.7 Photometric determination (UV-VIS)**

ISO 11083 1994-08	Water quality - Determination of chromium(VI) - Spectrometric method using 1,5-diphenylcarbazide (Deviation from the standard: <i>Determination of chromium(VI) in extracts from textiles</i> )
DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolysed formaldehyde (water extraction method) (ISO 14184-1:2011, EN ISO 14184-1:2011)
DIN EN ISO 17075-1 2017-05	Leather - Chemical determination of chromium(VI) content in leather - Part 1: Colorimetric method (Deviation from the standard: <i>Measurement by means of ion chromatography possible</i> ) (ISO 17075:2017, EN ISO 17075:2017)
DIN EN ISO 17226-2 2009-09	Leather - Chemical determination of formaldehyde content - Part 2: Method using colorimetric analysis (ISO 17226-2:2008, EN ISO 17226-2:2008)
DIN EN 420 2010-03	Protective gloves - General requirements and test methods (EN 420:2003)
DIN EN 717-3 1996-05	Wood-based panels - Determination of formaldehyde release - Part 3: Formaldehyde release by the flask method

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**2.8 Other test methods**

DIN EN ISO 787-9 1995-04	General methods of test for pigments and extenders - Part 9: Determination of pH value of an aqueous suspension (ISO 787-9:1981, EN ISO 787-9:1995)
DIN EN ISO 3071 2006-05	Textiles - Determination of pH of aqueous extract (ISO 3071:2005, EN ISO 3071:2006)
DIN EN ISO 4045 2008-05	Leather - Chemical tests - Determination of pH (ISO 4045:2008, EN ISO 4045:2008)
DIN EN ISO 4098 2006-04	Leather - Chemical tests - Determination of water-soluble matter, water soluble inorganic matter and water-soluble organic matter (ISO 4098:2006, EN ISO 4098:2006)
DIN EN 62321-3-1 2014-10	Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry (IEC 62321-3-1:2013, EN 62321-3-1:2014, VDE 0042-1-3-1:2014-10)
FD A06-222:2002-06-01; FD CR 12471:2002-06-01	Screening test for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin
SOP-OC-521 2013-10	Material determination by means of FT-IR spectroscopy
SOP-OC-525 2016-05	Identifying polyvinylchloride (PVC)

**3 Commodity goods for use in contact with foodstuffs**

**3.1 Migration testing**

DIN EN 1186-1 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 1: Guide to the selection of conditions and test methods for overall migration (EN 1186-1:2002)
BVL B 80.30-4 2008-10	Materials and articles in contact with foodstuffs - Plastics - Part 1: Guide to the selection of conditions and test methods for overall migration (DIN EN 1186-1:2002-07)

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DIN EN 1186-3 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration into aqueous simulants by total immersion (EN 1186-3:2002)
BVL B 80.30-6 2008-10	Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration into aqueous simulants by total immersion (DIN EN 1186-3:2002-07)
DIN EN 1186-5 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 5: Test methods for overall migration into aqueous food simulants by cell (EN 1186-5:2002)
BVL B 80.30-8 2008-10	Materials and articles in contact with foodstuffs - Plastics - Part 5: Test methods for overall migration into aqueous food simulants by cell (DIN EN 1186-5:2002-07)
DIN EN 1186-9 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 9: Test methods for overall migration into aqueous simulants by article filling (EN 1186-9:2002)
BVL B 80.30-12 2008-10	Materials and articles in contact with foodstuffs - Plastics - Part 9: Test methods for overall migration into aqueous simulants by article filling (DIN EN 1186-9:2002-07)
DIN EN 1186-14 2002-12	Materials and articles in contact with foodstuffs - Plastics - Part 14: Test methods for 'substitute tests' for overall migration from plastics intended to come into contact with fatty foodstuffs using test media iso-octane and 95 % ethanol (EN 1186-14:2002)
BVL B 80.30-17 2008-10	Materials and articles in contact with foodstuffs - Plastics - Part 14: Test methods for 'substitute tests' for overall migration from plastics intended to come into contact with fatty foodstuffs using test media iso-octane and 95 % ethanol (DIN EN 1186-14:2002-12)
DIN EN 1388-1 1995-11	Materials and articles in contact with foodstuffs - Silicate surfaces - Part 1: Determination of the release of lead and cadmium from ceramic ware (EN 1388-1:1995)

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BVL B 80.03-3 2008-10	Materials and articles in contact with foodstuffs - Silicate surfaces - Part 1: Determination of the release of lead and cadmium from ceramic ware (DIN EN 1388-1:1995-11)
DIN EN 1388-2 1995-11	Materials and articles in contact with foodstuffs - Silicate surfaces - Part 2: Determination of the release of lead and cadmium from silicate surfaces other than ceramic ware (EN 1388-2:1995)
BVL B 80.03-4 2008-10	Materials and articles in contact with foodstuffs - Silicate surfaces - Part 2: Determination of the release of lead and cadmium from silicate surfaces other than ceramic ware (DIN EN 1388-2:1995-11)
DIN EN 13130-1 2004-08	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 1: Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food stimulants (EN 13130-1:2004)
BVL B 80.30-19 2008-10	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 1: Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food simulants (DIN EN 13130-1:2004-08)
DIN EN 13130-3 2004-08	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 3: Determination of Acrylonitrile in food and food stimulants (EN 13130-3:2004)
BVL B 80.30-21 2008-10	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 3: Determination of Acrylonitrile in food and food stimulants (DIN EN 13130-3:2004-08)
DIN EN 13130-4 2004-08	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 4: Determination of 1,3-butadiene in plastics (EN 13130-4:2004)

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BVL B 80.30-22 2008-10	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 4: Determination of 1,3-butadiene in plastics (DIN EN 13130-4:2004-08)
DIN CEN/TS 13130-9 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 9: Determination of acetic acid, vinyl ester in food stimulants (CEN/TS 13130-9:2005)
DIN CEN/TS 13130-13 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 13: Determination of 2,2-bis(4-hydroxyphenyl)propane (Bisphenol A) in food stimulants (CEN/TS 13130-13:2005)
DIN CEN/TS 13130-15 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 15: Determination of 1,3-butadiene in food stimulants (CEN/TS 13130-15:2005)
DIN CEN/TS 13130-16 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 16: Determination of caprolactam and caprolactam salt in food stimulants (CEN/TS 13130-16:2005)
DIN CEN/TS 13130-23 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 23: Determination of formaldehyde and hexamethylenetetramine in food stimulants (CEN/TS 13130-23:2005)
DIN EN 16889 2016-10	Food hygiene - Production and dispense of hot beverages from hot beverage appliances - Hygiene requirements, migration test
DIN 51032 2017-07	Ceramics, glass, glass ceramics - Permissible limits for the release of lead and cadmium from articles intended for use in contact with food
BVL B 80.03-1(EG) 1985-06	Analysis of commodity goods; fundamental rules for the determination of the solubility of Lead and Cadmium
BVL B 80.03-2(EG) 2007-03	Analysis of commodity goods - analysis method to determine the Lead and Cadmium release
BVL B 80.30-1(EG) 1998-01	Analysis of commodity goods - General rules to determine the migration - Annex

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BVL B 80.30-2(EG) 2008-04	Analysis of commodity goods - list of simulants
BVL B 80.30-3(EG) 2008-04	Analysis of commodity goods - Further regulations on the testing of compliance with the migration limits
SOP-OC-306 2016-05	Determination of primary aromatic amines (PAA) in migrates from commodity goods - LC/MSMS
SOP-OC-401 Annex 4: 2016-05	Determination of phthalates (PHT) in specific migrate - GC/MS
SOP-OC-505 Annex 3: 2016-05	Determination of polycyclic aromatic hydrocarbons (PAH) in specific migrate
SOP-OC-514 2014-10	Determination of Nonylphenol in migrates of commodity goods - LC/MSMS
SOP-IC-101 2017-05	Determination of metals in migrates of different materials according to DIN EN ISO 17294-2:2017-01 ( <i>modified</i> )

**3.2 Sensory testing**

DIN EN 1230-1 2010-02	Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 1: Odour (EN 1230-1:2009)
BVL B 80.56-6 2016-07	Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 1: Odour (DIN EN 1230-1:2010-02)
DIN EN 1230-2 2010-02	Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 2: Off-flavour (taint) (EN 1230-2:2009)
BVL B 80.56-7 2016-07	Paper and board intended to come into contact with foodstuffs - Sensory analysis - Part 2: Off-flavour (taint) (DIN EN 1230-2:2010-02)
DIN 10955 2004-06	Analysis of commodity goods - Sensory analysis - Testing of packaging materials and packages for foodstuffs
BVL B 80.00-4 2008-10	Analysis of commodity goods - Sensory analysis - Testing of packaging materials and packages for foodstuffs (DIN 10955:2004-06)
SNR 195651 2015-09	Textiles - Determination of the development of smells of finishings (sensory test)

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SOP-CG-200 2017-01	Odor assessment of consumer products according to in-house method, and odor test of consumer products according to SNR 195651:2015 as well as according to in-house method
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**3.3 Other test methods**

Bundesgesundheitsblatt 46 (2003) 362	61st notice on the analysis of plastics, Federal Health Gazette, health research, health protection 46 (2003) 362, Volatile organic compounds in silicones
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SOP-CG-209 2017-06	Determination of peroxide number in silicones and plastics using titrimetry
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SOP-CG-210 2017-06	Determination of extractable compounds in commodity goods from silicones for food contact according to BfR Recommendation XV
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SOP-CG-211 2016-11	Determination of volatile organic compounds in commodity goods from food contact materials made of plastic according to BfR Recommendation
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**4 Test of toys for contaminants**

**4.1 Determination of elements in toys by means of ICP/MS analysis and ion chromatography and determination of Organotin compounds by means of GC/MS analysis**

DIN EN 71-3 2014-12	Safety of toys - Part 3: Migration of certain elements (EN 71-3:2013)
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**4.2 Determination of organic contaminants in toys**

**4.2.1 Sample Preparation**

DIN EN 71-9 2007-09	Safety of toys - Part 9: Organic chemical compounds - Requirements (EN 71-9:2005)
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DIN EN 71-10 2006-03	Safety of toys - Part 10: Organic chemical compounds - Sample preparation and extraction (EN 71-10:2005)
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**4.2.2 Determination of organic contaminants in toys by means of GC/MS analysis  
(primary aromatic amines, solvents, wood preservatives) <sup>1)</sup>**

DIN EN 71-7  
2014-07                      Safety of toys - Part 7: Finger paints - Requirements and test methods  
(EN 71-7:2014)  
(limitation: *only for the determination of aromatic amines from azo  
dyes and free aromatic amines*)

DIN EN 71-11  
2006-01                      Safety of toys - Part 11: Organic chemical compounds - Methods of  
analysis (EN 71-11:2005)  
(Limitation: *No method for solvent inhalation*)

**4.2.3 Determination of organic contaminants in toys by means of LC/MS analysis  
(flame retardants, dyes, primary aromatic amines, monomers, preservatives, plasticizers N-  
Nitrosamines) <sup>1)</sup>**

DIN EN 71-7  
2014-07                      Safety of toys - Part 7: Finger paints - Requirements and test methods  
(EN 71-7:2014)  
(limitation: *only for the determination of aromatic amines from azo  
dyes and free aromatic amines*)

DIN EN 71-11  
2006-01                      Safety of toys - Part 11: Organic chemical compounds - Methods of  
analysis (EN 71-11:2005)  
(Limitation: *No method for solvent inhalation*)

DIN EN 71-12  
2017-03                      Safety of toys - Part 12: N-Nitrosamines and N-nitrosatable  
substances (EN 71-12:2016)

**4.2.4 Determination of Formaldehyde in toys by means of Photometric analysis (UV-VIS)**

DIN EN 71-11  
2006-01                      Safety of toys - Part 11: Organic chemical compounds - Methods of  
analysis (EN 71-11:2005)  
(Limitation: *No method for solvent inhalation*)

**5 Procedures of the Consumer Product Safety Improvement Act (CPSIA 2008) #**

CPSC-CH-E1001-08.1  
June 21, 2010                      Standard Operating Procedure for Determining Total Lead (Pb) in  
Children's Metal Products (Including Children's Metal Jewelry)

CPSC-CH-E1001-08.3  
November 15, 2012                      Standard Operating Procedure for Determining Total Lead (Pb) in  
Children's Metal Products (Including Children's Metal Jewelry)

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CPSC-CH-E1002-08.1 June 21, 2010	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1002-08.3 November 15, 2012	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1003-09.1 February 25, 2011	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CPSC-CH-E1004-11 February 03, 2011	Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry
CPSC-CH-C1001-09.3 April 1st, 2010	Standard Operating Procedure for Determination of Phthalates
16 CFR Part 1303 January 1, 2012	BAN OF LEAD-CONTAINING PAINT AND CERTAIN CONSUMER PRODUCTS BEARING LEAD-CONTAINING PAINT
ASTM F963 Part 4.3.5.1 2016	Standard Consumer Safety Specification for Toy Safety Paint and Similar Surface-Coating Materials
ASTM F963 Part 4.3.5.2 2016	Standard Consumer Safety Specification for Toy Safety Toy Substrate Materials
ASTM E1645 2016	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis
ASTM F2923 2014	Standard Specification for Consumer Product Safety for Children's Jewelry

*# This accreditation does not replace the recognition and approval process of the relevant authorities according to legislator's demands.*

**-Translation-**

**Abbreviations used:**

AATCC	American Association of Textile Chemists and Colorists
ASTM	American Society for Testing and Materials
BfR	Bundesinstitut für Risikobewertung
BVL	Bundesamt für Verbraucherschutz und Lebensmittelsicherheit
BS	British Standard
DIN	Deutsches Institut für Normung e.V.
DTB	Dialog Textil-Bekleidung
EN	European Standards
EPA	Environmental Protection Agency, USA
FD CR	Final Draft CEN Report
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
JIS	Japan Industrial Standards
SNV	Schweizerische Normen-Vereinigung
SOP-XX-YYYY	in house method of Prüfinstitut HANSECONTROL GmbH
VDE	Verband der Elektrotechnik Elektronik Informationstechnik e. V.

**-Translation-**