

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14169-03-03 according to DIN EN ISO/IEC 17025:2005

Valid from: 19.03.2019

Date of issue: 20.05.2019

Holder of certificate:

TÜV Rheinland LGA Products GmbH

at the locations:

**Am Grauen Stein, 51105 Köln
Tillystraße 2, 90431 Nürnberg
Maximilianallee 2, 04129 Leipzig**

Tests in the fields:

**Chemical and physico-chemical/sensory testing of commodities, consumer goods and their migrates
(fibrous materials, leather, wood, natural substances, polymers, emulsions)**

Physical, physico-chemical, chemical analysis of water

**Selected physico-chemical and chemical testing of material samples, building materials, steel,
ferrous and non-ferrous metal materials, candles**

Test chamber analysis

**Analytical determination of airborne pollutants in emissions and immissions as well as in
indoor areas**

Determination of microbiological contents in indoor areas

Analysis of hazardous substances at the workplace

Microbiological analysis of commodities and cosmetic products

Technical analysis of textiles, leather, footwear, plastics, personal protective equipment

Mechanical-physical testing of toys

**Testing of emission of dangerous substances of construction products, where reference to a
relevant harmonised technical specification is not required (point 3. Annex V, (EU) No. 305/2011)**

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>*

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The test methods are marked with the following symbols for the locations at which they are carried out:

K = Cologne, N = Nuremberg, L = Leipzig

The testing laboratory is permitted to apply the listed standardised or equivalent test methods with different versions of the standards without obtaining prior notification and consent from DAkkS.

For the test fields marked with * the laboratory is permitted to do the following without obtaining prior notification and consent from DAkkS

1) Freely select standard test methods or equivalent test methods.

2) Modify test methods and develop new test methods.

The test methods listed are given by way of example. The laboratory has an up-to-date list of all test methods within the flexible scope of accreditation.

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1 Chemical testing of commodities, consumer goods and their migrates (fibrous materials, leather, wood, natural substances, polymers, emulsions)

1.1 Organic substances

1.1.1 Production of migrates / extracts and mechanical comminution of components*2)

DIN EN 71-10 2006-03	Safety of toys – Part 10: Organic chemical compounds – Sample preparation and extraction	N
DIN EN 62321-2*VDE 0042-1-2 2014-09	Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjointment and mechanical sample preparation	K, N
DIN EN 645 1994-01	Paper and board intended to come into contact with foodstuffs – Preparation of a cold water extract	K, N
DIN EN 647 1994-01	Paper and board intended to come into contact with foodstuffs – Preparation of a hot water extract	K, N
DIN EN 11861-1 2002-07	Materials and articles in contact with foodstuffs – Plastics – Part 1: Guideline on the selection of test conditions and methods for overall migration	N
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 simulants	K, N
MS-0022803 2018-11	Splitting and comminution of samples of all kinds in mechanical sample preparation	K
MS-0022804 2018-08	Comminution, weighing and extraction of material samples	N
MS-0035996 2018-10	Splitting and comminution of samples of all kinds in mechanical sample preparation	N

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1.1.1 Gas chromatographic methods

1.1.1.1 Conventional detectors (GC-FID, GC-ECD)*²⁾

DIN EN 1186-2 2002-07	Materials and articles in contact with foodstuffs – Plastics – Part 2: Test methods for overall migration into olive oil by total immersion	N
DIN EN 1186-4 2002-07	Materials and articles in contact with foodstuffs – Plastics – Part 4: Test methods for overall migration in olive oil by cell	N
DIN EN ISO 17895 2005-06 Corrigendum 1 2007-11	Paints and varnishes - Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC)	K
MS-0022910 2017-11	Gas chromatographic determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC) in accordance with DIN EN ISO 17895	K
MS-0022945 2018-07	Determination of volatile organic compounds in material samples by GC-MS and GC-FID	N

1.1.1.2 Mass selective detectors (GC-MS and GC-MS/MS)*²⁾

DIN EN 71-3 2018-08 EN 71-3:2013+A3:2018 2017-08	Safety of toys – Part 3: Migration of certain elements, section 9.3 Organotin	N
DIN EN 71-11 2006-01	Safety of toys – Part 11: Organic chemical compounds – Methods of analysis, sections: 5.4 Primary aromatic amines 5.5 Monomers and solvents 5.6 Wood preservatives 5.8 Plasticisers	N
ISO 8124-6 2018-11	Safety of toys – Part 6: Certain phthalate esters in toys and children's products	K, N
ASTM F963-17 2017 ASTM F963-18/-19 2018/2019	Standard Consumer Safety Specification for Toy Safety Part 8.2 Testing for Hazardous Substance Content (except toxicological risk assessment)	K, N

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CPSC-CH-C1001-09.4 2017-09	Standard Operating Procedure for Determination of Phthalates <i>(where necessary using extraction method EPA 3550C for non PVC material)</i>	K, N
DIN EN ISO 17070 2015-05	Leather – Chemical tests – Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content	K, N
DIN EN ISO 17234-1 2015-07 EN ISO 17234-1 2010-02	Leather – Chemical tests – Determination of certain azo colourants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colourants <i>(harmonised version)</i>	K, N
DIN EN ISO 17234-2 2011-06 EN ISO 17234-2 2011-03	Leather – Chemical tests – Determination of certain azo colourants in dyed leathers – Part 2: Determination of 4-aminoazobenzene <i>(harmonised version)</i>	K, N
DIN EN ISO 18218-1 2015-11	Leather – Determination of ethoxylated alkylphenols – Part 1: Direct method	K
DIN EN ISO 18219 2016-02	Leather – Determination of chlorinated hydrocarbons in leather – Chromatographic method for short-chain chlorinated paraffins (SCCP)	K, N
CEN ISO/TS 16179 2012-08	Footwear – Critical substances potentially present in footwear and footwear components – Determination of organotin compounds in footwear materials <i>(prestandard)</i>	K, N
CEN ISO/TS 16181 2011-07	Footwear – Critical substances potentially present in footwear and footwear components – Determination of phthalates in footwear materials	K, N
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	K, N

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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	K, N
DIN CEN ISO/TS 16190 2013-12	Footwear – Critical substances potentially present in footwear and footwear components – Test method for quantitatively determine polycyclic aromatic hydrocarbons (PAH) in footwear materials	K
DIN 54232 2010-08	Textiles – Determination of the content of bonds based on chlorobenzene and chlorotoluene	K
DIN EN ISO 14362-1 2017-05 EN 14362-1 2012-01	Textiles – Methods for determination of certain aromatic amines derived from azo colourants – Part 1: Detection of the use of certain azo colourants accessible with or without extraction <i>(harmonised version)</i>	K, N
DIN EN ISO 14362-3 2017-05 EN 14362-3 2012-06	Textiles – Methods for determination of certain aromatic amines derived from azo colourants – Part 3: Detection of the use of certain azo colourants, which may release 4-aminoazobenzene <i>(harmonised version)</i>	K, N
EN ISO 14389 2014-06	Textiles – Determination of the phthalate content – Tetrahydrofuran method	K
ISO 17881-1 2016-02	Textiles – Determination of flame retardants – Part 1: Brominated flame retardants	K
ISO 17881-2 2016-02	Textiles – Determination of flame retardants – Part 2: Phosphorus flame retardants	K
DIN EN 62321*VDE 0042-1 2009-12	Electrotechnical products – Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) (here: polybrominated biphenyls, polybrominated diphenyl ethers)	K, N

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DIN EN 62321-6*VDE 0042-1-6 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)	K, N
EN 62321-8*VDE 0042-1-8 2017-12	Determination of certain substances in electrotechnical products – Part 8: Phthalates in polymers with pyrolysis gas chromatography mass spectrometry (Py-GC-MS), ion accumulation mass spectrometry (IAMS), gas chromatography mass spectrometry (GC-MS) and liquid chromatography mass spectrometry (LC-MS)	K, N
DIN EN 62321-10*VDE 0042-1-10 2016-10	Determination of certain substances in electrotechnical products – Part 10: Polycyclic aromatic hydrocarbons (PAHs) in polymers and electronics with gas chromatography mass spectrometry (GC-MS) <i>(draft)</i>	K, N
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 simulants <i>(corresponds to ASU B 80.30-21, 2008-10)</i>	K, N
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 <i>(corresponds to ASU B 80 30-22, 2008-10)</i>	K, N
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 simulants <i>(prestandard)</i>	K, N
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 simulants <i>(prestandard)</i>	K, N
ASU B 80.32-1 (EG) 1981-11	Determination of the vinylchloride monomer content in commodity goods	N

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ASU B 80.56-2 2002-09 Corrigendum 2004-06	Determination of 1,3-dichloro-2-propanol and 3-monochloro-1,2-propanediol in the water extract of paper, cardboard and paperboard	K
ASU B 80.68-1 (EG) 1981-11	Determination of monomeric acrylnitrile in polymerides	K, N
ASU B 82.02-8 2001-06	Analysis of commodity goods – Detection and determination of pentachlorophenol in commodities, in particular made of leather and textiles (reference method)	K, N
ASU K 84.00-8 (EG) 1982-11	Determination of methanol in relation to ethanol or propanol-2	K
ASU L 00.00-3 (EG) 2014-02	Determination of vinyl chloride transferred from commodities to foodstuffs <i>(standard withdrawn)</i>	N
ASU L 00.00-4 1982-05	Determination of monomeric acrylnitrile in food (simulants) <i>(here for the analysis of commodity goods)</i>	N
DIN 38407-2 (F 2) 1993-02	German standard methods for the determination of water, waste water and sludge; jointly determinable substances (group F); determination of low volatile halogenated hydrocarbons by gas chromatography <i>(here for the analysis of pesticides in commodities, natural substances, textiles)</i> <i>(standard withdrawn)</i>	K, N
DIN 38407-9 (F 9) 1991-05	German standard methods for the examination of water, waste water and sludge; substance group analysis (group F); determination of benzene and some of its derivatives by gas chromatography <i>(standard withdrawn)</i>	N
DIN EN ISO 17353 2005-11	Water quality – Determination of selected organotin compounds – Gas chromatographic method	K, N
DIN EN ISO 18856 2005-11	Water quality – Determination of selected phthalates using gas chromatography/mass spectrometry	K, N

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AfPS GS 2014:01 PAK 2014	Harmonised method for determination of polycyclic aromatic hydrocarbons (PAH) in polymers	K, N
DIN EN ISO 11890-2 [2013-07]	Paints and varnishes – Determination of volatile organic compound (VOC) content – Part 2: Gas chromatographic method	K
DIN EN 15308 2016-12	Characterisation of waste – Determination of selected polychlorinated biphenyls (PCB) in solid waste by using capillary gas chromatography with electron capture or mass spectrometric detection	K, N
MS-0022859 2018-07	Gas chromatographic determination of chlorinated paraffins in solids using GC/MS NCI in SCAN mode	K, N
MS-0022909 2018-10	Determination of hydrocarbons from mineral oil or plastics in paper and packaging material in accordance with the BFR method using GC/FID and/or GC/MSD	K
MS-0022911 2018-08	Determination of allergenic fragrances in cosmetics using GC-MS	K
MS-0022920 2018-08	Determination of nonylphenol and octylphenol in various matrices using GC-MS based on DIN EN ISO 18857-1	K, N
MS-0022924 2013-01	Determination of chlorophenols and phenols in wood and material samples	N
MS-0030031 2018-01	Determination of volatile organic compounds in solids using headspace-GC-MS	K

1.1.2 Liquid chromatographic methods

1.1.2.1 Conventional detectors (DAD)*²⁾

DIN EN 71-7 2018-05 EN 71-7+A2 2018-02	Safety of toys – Part 7: Finger paints – Requirements and test methods, sections: 4.2.2 in conjunction with Annex D: Colourants/azo colourants	N
DIN EN 71-11 2006-01	Safety of toys – Part 11: Organic chemical compounds – Methods of analysis, sections: 5.3 Colourants 5.5 Monomers and solvents	N

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ISO 8124-7 2015-10	Safety of toys – Part 7: Finger paints – Requirements and test methods, sections: 4.2 Colourants/azo colourants in conjunction with Annex C	N
DIN EN ISO 17226-1 2008-08	Leather - Chemical tests - Part 1: Determination of formaldehyde content in leather using high-performance liquid chromatography	K, N
DIN EN 13130-2 2004-08	Materials and articles in contact with foodstuffs – Plastics substances subject to limitation – Part 2: Determination of terephthalic acid in food simulants <i>(corresponds to ASU B 80.30-20, 2008-10)</i>	N
DIN CEN/TS 13130-18 2005-05	Materials and articles in contact with foodstuffs – Plastics substances subject to limitation – Part 18: Determination of 1,2-dihydroxybenzene, 1,3-dihydroxybenzene, 1,4-dihydroxybenzene, 4,4'-dihydroxybenzophenone and 4,4'-dihydroxybiphenyl in food simulants <i>(prestandard)</i>	N
DIN CEN/TS 13130-20 2005-05	Materials and articles in contact with foodstuffs – Plastics substances subject to limitation – Part 20: Determination of epichlorohydrin in plastics <i>(prestandard)</i>	N
DIN 38407-8 (F 8) 1995-10	German standard methods for the examination of water, waste water and sludge - Jointly determinable substances (group F); determination of 6 polycyclic aromatic hydrocarbons (PAH) in water by high performance liquid chromatography (HPLC) with fluorescence detection <i>(standard withdrawn)</i>	N
DIN EN ISO 17993 (F 18) 2004-03	Water quality – Determination of 15 polycyclic aromatic hydrocarbons (PAH) in water by HPLC with fluorescence detection after liquid-liquid extraction	N
ASU K 84.00-7 (EG) 1991-09	Analysis of cosmetic products – Detection and quantification of free formaldehyde	N

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ASU K 84.00-23 (EG) 1995-10	Analysis of cosmetic products – Detection and determination of benzoic acid, 4-hydroxybenzoic acid, sorbic acid, salicylic acid and propionic acid in cosmetic products	K, N
ASU K 84.00-24 (EG) 1996-11	Analysis of cosmetic products – Detection and determination of 2-phenoxyethanol, 1-phenoxypropan-2-ol, methyl-, ethyl-, propyl-, butyl- and benzyl-4-hydroxybenzoate in cosmetic products	K, N
ASU K 84.00-27 2014-02	Zinc pyrithione, piroctone olamine and climbazole in cosmetic products containing surfactant with anti-dandruff agents – HPLC method	K
ASU K 84.00-28 2014-02	Analysis of cosmetic products – Screening and quantitative determination of 10 UV filters in sunscreen products – HPLC method	K, N
MS-0023666 2015-01	Determination of isocyanates in air samples using LC-DAD/FLD	N
MS-0029407 2017-05	Determination of preservatives in cosmetic products and detergents, cleansers and cleaning agents (WPR) using HPLC-DAD-MS	K
MS-0035724 2018-09	Determination of MIT, CIT, BIT and phenol material samples using LC-DAD/MS	N

1.1.2.2 Mass selective detectors (LC-MS and LC-MS/MS) *2)

DIN EN 71-7 2018-05	Safety of toys – Part 7: Finger paints – Requirements and test methods, sections:	N
EN 71-7+A2 2018-02	4.5.1 Primary aromatic amines 4.6 Odour and taste (analysis of bitter substances using HPLC-MS-MS) 4.7 pH value 4.9 N-nitrosamines	
DIN EN 71-11 2006-01	Safety of toys – Part 11: Organic chemical compounds – Methods of analysis, sections: 5.2 Flame retardants 5.4 Primary aromatic amines 5.7 Preservatives	N

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DIN EN 71-12 2017-03 EN 71-12 2016-12	Safety of toys – Part 12: N-nitrosamines and N-nitrosatable substances	N
ISO 8124-7 2015-10	Safety of toys – Part 7: Finger paints – Requirements and test methods, sections: 4.5.1 Primary aromatic amines in conjunction with Annex C	N
DIN EN ISO 13365 2011-04	Leather – Chemical tests – Determination of preservatives (TCMTB, CMK, OPP, OIT) in leather using liquid chromatography	K
DIN EN ISO 17234-1 2015-07 EN ISO 17234-1 2010-02	Leather – Chemical tests – Determination of certain azo colourants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colourants <i>(harmonised version)</i>	K, N
DIN EN ISO 17234-2 2011-06 EN ISO 17234-2 2011-03	Leather – Chemical tests – Determination of certain azo colourants in dyed leathers – Part 2: Determination of 4-aminoazobenzene <i>(harmonised version)</i>	K, N
DIN 54231 2005-11	Textiles - Detection of disperse dyestuffs <i>(corresponds to ASU B 82.02-10, 2007-03)</i>	K, N
DIN EN ISO 14362-1 2017-05 EN 14362-1 2012-01	Textiles – Methods for determination of certain aromatic amines derived from azo colourants – Part 1: Detection of the use of certain azo colourants accessible with and without extracting the fibres <i>(harmonised version)</i>	K, N
DIN EN 14362-2 2003-12	Textiles – Methods for determination of certain aromatic amines derived from azo colourants – Part 2: Detection of the use of certain azo colourants accessible by extracting the fibres <i>(corresponds to ASU B 82.02-4, 2013-01)</i> <i>(standard withdrawn)</i>	K, N

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DIN EN ISO 14362-3 2017-05 EN 14362-3 2012-06	Textiles – Methods for determination of certain aromatic amines derived from azo colourants – Part 3: Detection of the use of certain azo colourants, which may release 4-aminoazobenzene <i>(harmonised version)</i>	K, N
DIN EN ISO 18254-1 2016-09	Textiles – Method for the detection and determination of alkylphenol ethoxylates (APEO) – Part 1: Method using HPLC-MS	K, N
DIN EN 62321-9*VDE 0042-1-9 2016-05	Determination of certain substances in electrotechnical products – Part 9: Hexabromocyclododecane in polymers by high pressure liquid chromatography mass spectrometry (HPLC-MS) <i>(draft)</i>	K, N
DIN EN 13130-8 2004-08	Materials and articles in contact with foodstuffs – Plastics substances subject to limitation – Part 8: Determination of isocyanates in food simulants <i>(corresponds to ASU B 80.30-26, 2008-10)</i>	N
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 plastics <i>(prestandard)</i>	N
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 simulants <i>(prestandard)</i>	K, N
ISO 15819 2014-10	Cosmetics – Analytical methods – Nitrosamines: Detection and determination of N-nitrosodiethanolamine (NDELA) in cosmetics by HPLC-MS-MS	N
ASU K 84.00-23 (EG) 1995-10	Analysis of cosmetic products – Detection and determination of benzoic acid, 4-hydroxybenzoic acid, sorbic acid, salicylic acid and propionic acid in cosmetic products	K, N

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ASU K 84.00-24 (EG) 1996-11	Analysis of cosmetic products – Detection and determination of 2-phenoxyethanol, 1-phenoxypropan-2-ol, methyl-, ethyl-, propyl-, butyl- and benzyl-4-hydroxybenzoate in cosmetic products	K, N
ASU K 84.00-26 2014-02	Analysis of cosmetic products – Determination of 3-iodo-2-propynyl butylcarbamate (IPBC) in cosmetic products – HPLC-MS method <i>(corresponds to DIN EN 16343:2013-08)</i>	K
CEN/TS 15968 2010-08	Determination of extractable perfluorooctanesulfonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams – Method for sampling, extraction and analysis by LC-MS or LC-MS/MS <i>(prestandard)</i>	K, N
MS-0023385 2014-06	Alkylphenoethoxylates in extracts from material samples by LC-MS/MS	N
MS-0023388 2014-10	Determination of primary aromatic amines in aqueous food simulants by LC-MS/MS	N
MS-0023621 2018-04	Quantitative determination of isothiazolones (cathons), preservatives or biocides with the abbreviation MIT / BIT / CIT / bronopol / OIT / phenol using HPLC-DAD/MS in liquid samples or extracts	K
MS-0029407 2017-05	Determination of preservatives in cosmetic products and detergents, cleansers and cleaning agents (WPR) using HPLC-DAD-MS	K
MS-0029935 2018-03	Quantitative determination of colourants in cosmetics using LC-DAD	K
MS-0029972 2017-11	Determination of primary aromatic amines (paA) in aqueous migrates using LC-MS/MS	K
MS-0029975 2017-11	Determination of alkylphenol ethoxylates (APEO) in material using LC-MS	K
MS-0035724 2018-09	Determination of MIT, CIT, BIT and phenol material samples using LC-DAD/MS	N

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1.1.3 Photometric methods ^{*1)}

DIN EN 71-11 2006-01	Safety of toys – Part 11: Organic chemical compounds – Methods of analysis, section 5.5.3	N
DIN EN ISO 17226-2 2009-09	Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis	K, N
DIN EN ISO 14184-1 2011-12	Textiles – Determination of formaldehyde content – Water extraction method	K, N
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 simulants (<i>prestandard</i>)	K, N
DIN EN 1541 2001-07	Paper and board intended to come into contact with foodstuffs – Determination of formaldehyde in an aqueous extract	K, N
DIN 54603 2008-08	Testing of paper, paperboard and board – Determination of glyoxal content	K, N
ASU B 82.02-1 1985-06	Analysis of commodity goods – Determination of the release of formaldehyde from textile commodity goods	K, N
ASU K 84.00-7 (EC), section 4 1991-09	Formaldehyde – Determination of total amount by colorimetry with acetylacetone	K
ASU L 00.00-6 1995-01 Corrigendum 2002-12	Analysis of foodstuffs – Determination of primary aromatic amines in aqueous test foodstuffs (<i>here for the analysis of commodity goods</i>)	K, N
VdL-RL 03 2018-02	Guideline for the determination of formaldehyde concentration in water-dilutable emulsion paints and related products	K
VDA 275 1994-07	Moulded parts for vehicle interiors – Determination of formaldehyde release – Measurement method by the modified flask method	K

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DIN EN 717-3 1996-05	Wood-based panels – Determination of formaldehyde release – Part 3: Formaldehyde release by the flask method	K, N
DIN EN ISO 12460-5 2016-05	Wood-based panels – Determination of formaldehyde release – Part 5: Extraction method (called the perforator method)	K

1.2 Inorganic chemicals

1.2.1 Production of migrates / extracts / digestion solutions and mechanical comminution of components*2)

ISO 10195 2018-05	Leather – Chemical determination of chromium(VI) content in leather – Part 3: Thermal pre-ageing of leather and determination of hexavalent chromium	K
DIN EN 62321-2*VDE 0042-1-2 2014-09	Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjointment and mechanical sample preparation	K, N
EDQM Guideline 2013-09	Metals and alloys used in food contact materials and articles - A practical guide for manufacturers and regulators (1 st edition), European Directorate for the Quality of Medicines and HealthCare EDQM	K, N
DIN EN 1186 ff 2002	Materials and articles in contact with foodstuffs – Plastics – Migration methods	N
DIN EN 645 1994-01	Paper and board intended to come into contact with foodstuffs – Preparation of a cold water extract	K, N
DIN EN 647 1994-01	Paper and board intended to come into contact with foodstuffs – Preparation of a hot water extract	K, N
DIN EN 16128 2016-02	Reference test method for release of nickel from parts of spectacle frames and sunglasses intended to come into direct and prolonged contact with the skin	K, N
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 <i>(corresponds to ASU B 82.02-6, 2016-07)</i>	K, N

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DIN EN 12472 2009-09	Method for the simulation of wear and corrosion for the detection of nickel release from coated items	K, N
DIN EN 12457-4 2003-01	Characterisation of waste – Leaching; Compliance test for leaching of granular waste materials and sludges – Part 4: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 10 mm (without or with size reduction)	N
DIN EN 13657 2003-01	Characterisation of waste – Digestion for subsequent determination of aqua regia soluble portion of elements in waste	N
DIN EN 16174 2012-11	Sludge, treated biowaste and soil – Digestion of aqua regia soluble fractions of elements	N
MS-0022716 2019-01	Microwave digestion of solid samples (e.g. cosmetics, plastics, paints, wood, quartz wool, flat filters) for heavy metal determination (e.g. As, Pb, Cd, Sb, Hg) using ICP-MS, ICP-OES or hydride system	K, N
MS-0022821 2018-12	Wickbold digestion in accordance with DIN 51408-1	N

1.2.2 Ion chromatographic methods^{*1)}

DIN EN 71-3 2017-10 EN 71-3:2013+A3:2018 2018-06	Safety of toys – Migration of certain elements, section 9.2 Chromium(III) and Chromium(VI)	N
DIN EN ISO 17075-2 2017-05	Leather – Chemical determination of chromium(VI) content in leather – Part 2: Chromatography	K
DIN EN ISO 10304-1 2009-07	Water quality – Determination of dissolved anions by liquid chromatography of ions – Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulphate	N
DIN EN ISO 10304-3 1997-11	Water quality – Determination of dissolved anions by liquid chromatography of ions – Part 3: Determination of chromate, iodide, sulphite, thiocyanate and thiosulphate (<i>restriction: chromate only</i>)	N

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MS-0024033 2018-09	Determination of chromiumVI by ion chromatography with inline enrichment and post-column derivatisation <i>(analysis based on DIN EN ISO 10304-3 1997-11)</i>	K, N
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1.2.3 Spectroscopic methods^{*2)}

DIN EN 71-3 2018-08 EN 71-3:2013+A3:2018 2018-06	Safety of toys – Part 3: Migration of certain elements	N
DIN EN 71-7 2018-05 EN 71-7+A2 2018-02	Safety of toys – Part 7: Finger paints – Requirements and test methods, section 4.4 Migration of certain elements	N
ISO 8124-3 2010-04 ISO 8124-3-AMD 1 2014-05 ISO 8124-3-AMD 2 2018-09	Safety of toys – Part 3: Migration of certain elements	N
ISO 8124-5 2015-06	Safety of toys – Part 5: Determination of total concentration of certain elements in toys	N
CPSC-CH-E1001-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Metal Children’s Products (including Children’s Metal Jewelry), Revision	K, N
CPSC-CH-E1002-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children’s Products	K, N
CPSC-CH-E1003-09.1 2011-02	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings	K, N
ASTM F963-17 2017 ASTM F963-18/-19 2018/2019	Standard Consumer Safety Specification for Toy Safety part 8.3 Test Methods for Determination of Heavy Element Content in Toys, Toy Components and Materials	K, N
ASTM F2923-14 2014	Standard Specification for Consumer Product Safety for Children’s Jewelry	K N

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DIN EN 16711-2 2016-02	Textiles – Determination of metal content – Part 2: Determination of metals extracted by acidic artificial perspiration solution	K, N
DIN EN ISO 17072-1 2011-06	Leather – Chemical determination of metal content – Part 1: Extractable metals	K
DIN EN ISO 17072-2 2011-06	Leather – Chemical determination of metal content – Part 2: Total metal content	K
DIN EN 62321*VDE 0042-1 2009-12	Electrotechnical products – Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)	K, N
DIN EN 62321-4*VDE 0042-1- 4 2018-05	Determination of certain substances in electrotechnical products – Part 4: Mercury in polymers, metals and electronics with CV-AAS, CV-AFS, ICP-OES and ICP-MS	K, N
DIN EN 62321-5*VDE 0042-1- 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 with AAS, AFS, ICP-OES and ICP-MS	K, N
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 <i>(corresponds to ASU B 80.03-3, 2008-10)</i>	K, N
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 <i>(corresponds to ASU B 80.03-4, 2008-10)</i>	K, N
DIN EN ISO 17294-2 (E 29) 2017-01	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements (including uranium isotopes)	K, N
DIN EN ISO 11885 (E 22) 2009-09	Water quality – Determination of selected elements by inductively coupled plasma optical emission spectroscopy (ICP-OES)	K, N

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DIN EN 13346 (S 7) 2001-04	Characterisation of sludges – Determination of trace elements and phosphorus – Aqua regia extraction methods	K, N
DIN EN 1122 2002-02	Plastics – Determination of cadmium – Wet decomposition method	K
MS-0030125 2018-01	Qualitative determination by FT-IR spectroscopy	K
MS-0035997 2018-10	Identification of materials by IR spectroscopy	N

1.2.4 X-ray fluorescence spectroscopy ^{*1)}

DIN EN 62321 2009-12	Electrotechnical products – Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) Section 6 Screening with X-ray fluorescence spectroscopy	K, N
DIN EN 62321-3-1*VDE 0042-1-3-1 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	K, N
MS-0023985 2018-11	Orienting examination of plastics and alloys by X-ray fluorescence spectroscopy based on DIN EN 62321 or DIN 51418-2	K, N

1.2.5 Photometric methods ^{*1)}

DIN EN ISO 17075-1 2017-05	Leather – Determination of chromium(VI) content in leather – Part 1: Colorimetric method	K
DIN EN 62321-7-1*VDE 0042-1-7-1 2016-09	Determination of certain substances in electrotechnical products – Part 7-1: Determination of the presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method	K, N
ASU B 82.02-11 2008-10	Detection of chromium(VI) in commodity goods made of leather: Photometric method	K

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1.2.6 Electrode measurement methods^{*1)}

DIN 38405-4 (D 4)
1985-07

German standard methods for the examination of water, waste water and sludge; anions; determination of fluoride
(with fluoride ion-selective electrode)

1.3 Sum parameters

1.3.1 Production of migrates / extracts / digestion solutions and mechanical comminution of components^{*1)}

DIN EN 1186-1
2002-07

Materials and articles in contact with foodstuffs – Plastics – Part 1: Guideline on the selection of test conditions and methods for migration
(corresponds to ASU B 80.30-4, 2008-10)

DIN EN 12880
2001-02

Characterisation of sludges – Determination of water content and dry residue or dry matter

DIN EN 15935
2012-11

Sludge, treated biowaste, soil and waste – Determination of loss on ignition

MS-0022716
2019-01

Microwave digestion of solid samples (e.g. cosmetics, plastics, paints, wood, quartz wool, flat filters) for heavy metal determination (e.g. As, Pb, Cd, Sb, Hg) using ICP-MS, ICP-OES or hydride system

MS-0022821
2018-12

Wickbold digestion in accordance with DIN 51408-1

MS-0023930
2017-11

Determination of dry residue and water content as well as the loss on ignition/residue of dry matter
(applicable for example to cosmetics, detergents and cleaning agents)

1.3.2 Gravimetric methods^{*1)}

DIN EN ISO 4098
2018-10

Leather – Chemical tests – Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter

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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 in aqueous test foodstuffs by total immersion <i>(corresponds to ASU B 80.30-6, 2008-10)</i>	K, N
DIN EN 1186-5 2002-07	Materials and articles in contact with foodstuffs – Plastics – Part 5: Test methods for overall migration in aqueous test foodstuffs by cell <i>(corresponds to ASU B 80.30-8, 2008-10)</i>	K, N
DIN EN 1186-9 2002-07	Materials and articles in contact with foodstuffs – Plastics – Part 9: Test methods for overall migration in aqueous test foodstuffs by filling the item <i>(corresponds to ASU B 80.30-12, 2008-10)</i>	K, N
DIN EN 1186-13 2002-12	Materials and articles in contact with foodstuffs – Plastics – Part 13: Test methods for overall migration at high temperatures; Section 4 method B – Adsorption on modified polyphenylene oxide	K, N
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 foodstuffs using iso-octane and 95% ethanol <i>(corresponds to ASU B 80.30-17, 2008-10)</i>	K, N
DIN EN 1186-15 2002-12	Materials and articles in contact with foodstuffs – Plastics – Part 15: Alternative test methods for determination of migration in fatty foodstuffs by rapid extraction in iso-octane and/or 95% ethanol <i>(corresponds to ASU B 80.30-18, 2008-10)</i>	K, N
48. Communication Bundesgesundheitsblatt (Federal Health Gazette) 25, 334 1982	Determination of organic volatile components in non-foamed polystyrene commodities	K, N

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61. Communication Bundesgesetzblatt- Gesundheitsforsch- Gesundheitsschutz (Federal Law Gazette Health Research Health Protection), 46, 362 2003	Determination of volatile fractions in silicone elastomers	K, N
DIN EN 12880 2001-02	Characterisation of sludges – Determination of water content and dry residue or dry matter	K, N
DIN EN 15935 2012-11	Sludge, treated biowaste, soil and waste – Determination of loss on ignition	K, N
DIN EN ISO 10147 2013-03	Pipes and fittings made of crosslinked polyethylene (PE- X) – Estimation of the degree of crosslinking by determination of the gel content	K
1.3.3 Electrode measurement methods*1)		
DIN EN ISO 4045 2018-09	Leather – Chemical tests – Determination of pH and difference figure	K
DIN EN ISO 3071 2006-05	Textiles – Determination of pH of aqueous extract	K, N
DIN 53124 1998-08	Paper, board and pulps – Determination of pH in aqueous extracts	K, N
DIN EN 14718 2015-03	Influence of organic materials on water intended for human consumption – Determination of chlorine demand – Test method	N
DIN EN 15933 2012-11	Sludge, treated biowaste and soil – Determination of pH	N
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	K, N
MS-0023984 2017-11	Determination of pH	K

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MS-0023991 2019-01	Adsorbable organically bound halogens (AOX) in water, solids and cosmetics based on DIN EN ISO 9562 <i>(analysis based on DIN 38414-18)</i>	N
MS-0024035 2013-12	Coulometric water determination in organic solvents, oils and plastics by Karl Fischer method	N
MS-0024076 2018-06	Titrimetric determination of organically bound nitrogen in migrates of temperature-resistant coatings in accordance with BfR recommendation LI	N

2 Sensory testing of commodities, consumer goods and their migrates (fibrous materials, leather, wood, natural substances, polymers, emulsions)

2.1 Visual methods for determination of colour fastness*¹⁾

DIN 53160-1 2010-10	Determination of the colour fastness of articles for common use – Part 1: Test with artificial saliva	N
DIN 53160-2 2010-10	Determination of the colour fastness of articles for common use – Part 2: Test with artificial sweat	N
DIN EN 646 2019-02	Paper and board intended to come into contact with foodstuffs – Determination of colour fastness of dyed paper and board <i>(corresponds to ASU B 80.56-3, 2008-10)</i>	K, N
DIN EN 648 2019-02	Paper and board intended to come into contact with foodstuffs – Determination of the fastness of fluorescent whitened paper and board <i>(corresponds to ASU B 80.56-4, 2008-10)</i>	K, N
24. Communication on analysis of plastics, Bundesgesundheitsblatt (Federal Health Gazette), 15, 285, 1972	Testing of dyed commodities made of plastics and other polymers for colour fastness	K, N
CR 12471 Part 5.3.4 2002-08	Quick test for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin	K, N

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2.2 Sensory methods for determination of flavour/odour transfer

2.2.1 Standard methods*¹⁾

DIN 10955 2004-06	Sensory analysis - Testing of packaging materials and packages for foodstuffs <i>(corresponds to ASU B 80.00-4, 2008-10)</i>	K, N
DIN EN 1230-2 2018-10	Paper and board intended to come into contact with foodstuffs – Sensory analysis – Part 2: Off-flavour (taint)	N

2.2.2 Special sensory methods*¹⁾

KTW Guideline, German Federal Environment Agency 2012-11	Guideline for hygienic assessment of organic materials in contact with drinking water	K
KTW Recommendation; Communication 2: Bundesgesundheitsblatt (Federal Health Gazette) 20, 124 1977	KTW Recommendation – Part 2: Chemical analysis of commodity goods for use in the drinking water sector	K
SNV 195 651 1968-01	Determination of odours of equipment (sensory testing)	K

3 Analysis of water

3.1 Physical and physico-chemical parameters

DIN EN ISO 10523 2012-04	Water quality – Determination of pH	K, N
DIN EN 27888 (C8) 1993-11	Water quality - Determination of electrical conductivity	K, N
DEV B 1/2 1971	Test for odour and flavour	K

3.2 Anions

DIN 38405-1 (D 1) 1985-12	German standard methods for the examination of water, waste water and sludge; anions (group D); determination of chloride ions (D 1)	N
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DIN 38405-4 (D 4) 1985-07	German standard methods for the examination of water, waste water and sludge; anions (group D); determination of fluoride (D 4)	N
DIN EN ISO 10304-1 (D 20) 2009-07	Water quality – Determination of dissolved anions by liquid chromatography of ions – Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulphate	N
3.3 Cations		
DIN 38406-5 (E 5) 1983-10	German standard methods for the examination of water, waste water and sludge; cations (group E); determination of ammonia-nitrogen (E 5)	N
DIN EN ISO 11885 (E 22) 2009-09	Water quality – Determination of selected elements by inductively coupled plasma optical emission spectroscopy (ICP-OES)	K, N
DIN EN ISO 17294-2 (E 29) 2017-01	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes	K, N
3.4 Parameters characterising effects and substances		
DIN 38409-1 (H 1) 1987-01	German standard methods for the examination of water, waste water and sludge; parameters characterising effects and substances (group H); determination of total dry residue, filtrate dry residue and residue on ignition (H 1)	K, N
DIN 38409-2 (H 2) 1987-03	German standard methods for the examination of water, waste water and sludge; parameters characterising effects and substances (group H); determination of filterable matter and the residue on ignition (H 2)	N
DIN 38409-9 (H 9) 1980-07	German standard methods for the examination of water, waste water and sludge; general measures of effects and substances (group H), determination of the settleable matter by volume in water and waste water (H9)	K, N
DIN EN ISO 9562 (H 14) 2005-02	Water quality – Determination of adsorbable organically bound halogens (AOX)	N

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DIN 38409-16 (H 16) 1984-06	German standard methods for the examination of water, waste water and sludge; general measures of effects and substances (group H); determination of the phenol index (H 16)	K
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4 Analysis of metallic materials or metals and alloys

4.1 Sample preparation

DIN EN 10184 2006-05	Chemical analysis of ferrous materials – Determination of phosphorus in steels and irons – Spectrophotometric method (sample preparation)	N
ISO 10138 1991-04	Steel and iron – Determination of chromium content – Flame atomic absorption spectrometric method (sample preparation)	N
DIN EN 10240 1998-02	Internal and/or external protective coatings for steel tubes – Specification for hot dip galvanised coatings applied in automatic plants, section 11.5 Chemical composition: Antimony, arsenic, lead, cadmium, bismuth (sample preparation)	N
ISO 3980 1977-02	Aluminium and aluminium alloys – Determination of copper (sample preparation)	N
ISO 886 1973-11	Aluminium and aluminium alloys – Determination of manganese (sample preparation)	N
ISO 3256 1977-05	Aluminium and aluminium alloys – Determination of magnesium – Spectrophotometric atomic absorption method (sample preparation)	N

4.2 In-house methods

MS-0022717 2019-01	Wet chemical open digestion for the determination of metal contents in plastics, steel, copper, copper alloys and aluminium alloys	K, N
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MS-0022820 2019-01	Aqua regia digestion for the determination of trace elements and phosphorus, soils and sludges, building materials and concrete samples, button cells, batteries and rechargeable batteries	K, N
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4.3 Quantifying standards

DIN EN ISO 11885 (E 22) 2009-09	Water quality – Determination of selected elements by inductively coupled plasma optical emission spectroscopy (ICP-OES) <i>(modification: acid digestion or in accordance with section 4.1)</i>	K, N
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DIN EN ISO 17294-2 (E 29) 2017-01	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes <i>(modification: acid digestion or in accordance with section 4.1)</i>	K, N
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DIN EN 10036 1990-04	Chemical analysis of ferrous materials; determination of total carbon in steel and iron; gravimetric method after combustion in a stream of oxygen	N
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DIN EN 16117-2 2013-02	Copper and copper alloys – Determination of copper content – Part 2: Electrolytic determination of copper in materials with copper content higher than 99.80%	N
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DIN EN 1254-1 1998-03	Copper and copper alloys – Plumbing fittings – Part 1: Fittings with ends for capillary soldering or capillary brazing to copper tubes 5.4 Testing of inner surfaces for carbon	N
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ISO 797 1973-11	Aluminium and aluminium alloys – Determination of silicon – Gravimetric method	N
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5 Analysis of building materials

DIN 55912-2 2018-08	Pigments – Titanium dioxide pigments – Part 2: Analytical methods	N
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DIN EN 12802 2011-12	Road marking materials – Laboratory methods for identification	N
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DIN EN 723 2009-07	Combustion method for determination of the carbon content on the inner surface of copper tubes or fittings	N
Gütegemeinschaft Kupferrohr e.V. RAL-RG 641/1 Section 1 2004-07	Carbon film test on brand-new copper tubes	N
Gütegemeinschaft Kupferrohr e.V. RAL-RG 641/1 Section 2 2004-07	Quantitative determination of carbon content on the inside surface of the tube by combustion in accordance with DIN EN 723	N

6 Candle testing

DIN EN 15494 2008-01	Candles – Product safety labels	K
DIN EN 15493 2008-01	Candles – Specification for fire safety	K
DIN EN 15426 2008-01	Candles – Specification for sooting behaviour	K
RAL-GZ 041 2016-09	Candles – Quality assurance	K

7 Test chamber analysis

DIN EN ISO 15234 2011-02	Paints and varnishes - Testing of formaldehyde-emitting coatings, melamine foams and textiles – Determination of the steady-state concentration of formaldehyde in a small test chamber	K
DIN EN 717-1 2005-01	Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method	K, N
DIN EN ISO 12460-3 2016-003	Wood-based panels – Determination of formaldehyde release – Part 3: Gas analysis method	N

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DIN EN ISO 12460-5 2016-05	Wood-based panels – Determination of formaldehyde release – Part 5: Extraction method (called the perforator method)	K
DIN EN 717-3 1996-05	Wood-based panels – Determination of formaldehyde release – Part 3: Formaldehyde release by the flask method	K
DIN EN ISO 10580 2012-04	Resilient, textile and laminate floor coverings – Test method for volatile organic compound (VOC) emissions	N
DIN EN ISO 16000-9 2008-04	Indoor air – Part 9: Determination of the emission of volatile organic compounds from building products and furnishing – Emission test chamber method	K, N
DIN EN ISO 16000-11 2006-06	Indoor air – Part 11: Determination of the emission of volatile organic compounds from construction products and furnishing – Sampling, storage of samples and preparation of test specimens	K, N
DIN ISO 16000-28 2012-12	Indoor air – Part 28: Determination of odour emissions from building products using test chambers	N
DIN EN 14041 2018-05	Resilient, textile, laminate and modular multilayer floor coverings – Essential characteristics	N
DIN EN 14342 2013-09	Wood flooring – Characteristics, evaluation of conformity and marking	N
EN 16516 2017-10	Construction products: Assessment of release of dangerous substances – Determination of emissions into indoor air	N
GEV Test Method 2017-10-04	Determination of volatile organic compounds for the characterisation of emission-controlled laying materials, adhesives, construction products as well as paints, impregnations and oils for parquet, mineral floors and resilient floor coverings	K, N
VDI 4302-1 2015-04	Sensory testing of indoor air and determination of odour emissions from building products – Strategy for sensory testing of indoor air	N

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VDI 3484 Blatt 2 2001-11	Measurement of gaseous emissions – Measurement of indoor air pollution – Determination of formaldehyde concentration by the acetylacetone method	K, N
VDA 277 1995-01	Non-metallic materials in vehicle interiors – Determination of the emission of organic compounds	K
ANSI/BIFMA M7.1 2011 (R2016)	Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components and Seating (mid-scale und small-scale chamber)	K, N
ASTM D6007-14 2014	Standard Test Method for Determining Formaldehyde Concentration in Air from Wood Products Using a Small Scale Chamber	N
ASTM E1333-14 2014	Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Using a Large Chamber	N
ASTM D5116-17 2017	Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products	N
ASTM D6670-18 2018	Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products	N
ASTM D5197-16 2016	Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sampler Methodology)	N

8 Analytical determination of airborne pollutants

8.1 Emissions and immissions

8.1.1 Emission measurements (analysis)

DIN EN 14385 2004-05	Stationary source emissions – Determination of the total emission of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V	K, N
DIN EN 13211 2001-06 Corrigendum 1 2005-06	Air quality – Stationary source emissions – Manual method of determination of the concentration of total mercury – Analysis of filters	K, N

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DIN CEN/TS 13649;DIN SPEC 33969 2015-03	Stationary source emissions – Determination of the mass concentration of individual gaseous organic compounds – Sorptive sampling method followed by solvent extraction or thermal desorption	K, N
DIN EN 14791 2017-05	Stationary source emissions – Determination of mass concentration of sulphur oxides – Standard reference method	N
DIN EN 1911 2010-12	Stationary source emissions – Determination of mass concentration of gaseous chlorides expressed as HCl – Standard reference method	N
VDI 3874 2006-12	Measurement of emissions – Determination of polycyclic aromatic hydrocarbons (PAHs) – GC/MS method	K, N
VDI 3862 Blatt 2 2000-12	Measurement of gaseous emissions – Measurement of aliphatic and aromatic aldehydes and ketones using the DNPH method – Gas washing bottle method	K, N
VDI 3862 Blatt 3 2000-12	Measurement of gaseous emissions – Measurement of aliphatic and aromatic aldehydes and ketones using the DNPH method	K, N
VDI 3862 Blatt 5 2008-06	Gaseous emission measurement – Measurement of lower aldehydes especially acrolein with the 2-HMP-method – GC-method	K
VDI 2470 Blatt 1 1975-10	Measurement of gaseous emissions – Measurement of gaseous fluorine compounds – Absorption method	N
VDI 3486 Blatt 2 1979-04	Measurement of gaseous emission – Measurement of the hydrogen sulphide concentration – Iodometric method	N
VDI 3488 Blatt 1 1979-12	Gaseous emission measurement; measurement of chlorine and oxides of chlorine: Methyl orange method	N
VDI 3496 Blatt 1 1982-04	Measurement of gaseous emissions; Determination of basic nitrogen compounds ascertainable in sulphuric acid by absorption	N
VDI 2456 2004-11	Measurement of gaseous emissions – Reference method for the determination of the sum of nitrogen monoxide and nitrogen dioxide – Ion chromatographic method	N

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VDI 3485 Blatt 1 1988-12	Ambient air measurement; measurement of gaseous phenoloc compounds; p-nitroaniline method	N
VDI 2268 Blatt 1 1987-04	Chemical analysis of particulate matter; determination of Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sr, V, Zn in particulate emissions by atomic spectrometric methods (analysis: ICP-MS)	K
VDI 2268 Blatt 3 1988-12	Chemical analysis of particulate matter; determination of thallium in particulate emissions by atomic absorption spectrometry (analysis: ICP-MS)	K
VDI 2268 Blatt 4 1990-05	Chemical analysis of particulate matter; determination of arsenic, antimony and selenium in dust emissions by graphite-furnace atomic absorption spectrometry (analysis: ICP-MS)	K
VDA 270 2017-02	Determination of the odour characteristics of trim materials in motor vehicles	K

8.1.2 Immission measurements (analysis)

VDI 2267 Blatt 1 2012-10	Determination of suspended particulate matter in ambient air – Measurement of element concentration after filter sampling – Determination of Al, As, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Sn, Tl, V and Zn using graphite furnace atomic absorption spectrometry (GF-AAS), optical emission spectrometry with inductively coupled plasma (ICP-OES) and inductively coupled plasma mass spectrometry (ICP-MS)	K, N
VDI 2267 Blatt 14 2003-12	Determination of suspended matter in ambient air - Measurement of Al, As, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, V, Zn as part of dust deposition by optical emission spectrometry (ICP OES)	K, N
VDI 2267 Blatt 15 2005-11	Determination of suspended matter in ambient air – Measurement of the mass concentration of Al, As, Ca, Cd, Co, Cr, Cu, K, Mn, Ni, Pb, Sb, V, Zn as part of dust precipitation by mass spectrometry (ICP-MS)	K, N

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VDI 2100 Blatt 2 2010-11	Determination of gaseous compounds in ambient air – Determination of indoor air pollutants – Gas chromatographic determination of organic compounds – Active sampling by enrichment on activated carbon – Solvent extraction	K, N
VDI 2100 Blatt 3 2011-10	Determination of gaseous compounds in ambient air – Determination of indoor air pollutants – Gas chromatographic determination of organic compounds – Active sampling by accumulation on adsorbents – Thermal desorption	K, N
DIN ISO 12884 2000-12	Ambient air – Determination of total (gas and particle phase) polycyclic aromatic hydrocarbons – Collection on sorbent-backed filters with gas chromatographic/mass spectrometric analysis	K, N
DIN EN 14902 2005-10 Corrigendum 1 2007-01	Ambient air quality – Standard method for the measurement of Pb, Cd, As and Ni in the PM10 fraction of suspended particulate matter	N
DIN EN 14662-2 2005-08	Ambient air quality – Standard method for measurement of benzene concentrations – Part 2: Pumped sampling followed by solvent desorption and gas chromatography	K
DIN EN 14662-5 2005-08	Ambient air quality – Standard method for measurement of benzene concentrations – Part 5: Diffusive sampling followed by solvent desorption and gas chromatography	K
DIN EN 15841 2010-04	Ambient air quality – Standard method for determination of arsenic, cadmium, lead and nickel in atmospheric deposition	N
DIN EN 15549 2008-06	Air quality – Standard method for the measurement of the concentration of benzo[a]pyrene in ambient air	K
VDI 2451 Blatt 3 1996-09	Measurement of gaseous immissions - Measurement of sulphur dioxide concentration - Tetrachloromercurate pararosanine (TCM) method	N
VDI 2452 Blatt 2 1975-02	Gaseous air pollution measurement; determination of fluoric ion concentration; preseparation and electrometric detection	N

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8.2 Indoor measurements

8.2.1 Analytical determination of particulate and gaseous air pollutants in indoor air

NIOSH 5503 1994-08	Polychlorobiphenyls	K
VDI 2100 Blatt 2 2010-11	Determination of gaseous compounds in ambient air – Determination of indoor air pollutants – Gas chromatographic determination of organic compounds – Active sampling by enrichment on activated carbon – Solvent extraction	K
VDI 2100 Blatt 3 2011-10	Determination of gaseous compounds in ambient air – Determination of indoor air pollutants – Gas chromatographic determination of organic compounds – Active sampling by accumulation on adsorbents – Thermal desorption	K
VDI 4300 Blatt 2 1997-12	Indoor-air pollution measurement – Measurement strategy for polycyclic aromatic hydrocarbons (PAHs), polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs) (here: PAH, PCB)	K
VDI 4301 Blatt 2 2000-06	Indoor air pollution measurement - Measurement of pentachlorophenol (PCP) and γ -hexachlorocyclohexane (lindane) - GC/MS-method	N
DIN ISO 16000-3 2013-01	Indoor air – Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and in test chambers – Pumped sampling	K, N
DIN ISO 16000-6 2012-11	Indoor air – Part 6: Determination of volatile organic compounds in indoor air test chamber air by active sampling on TENAX TA® sorbent, thermal desorption and gas chromatography with MS or MS-FID	K, N
DIN EN ISO 16017-1 2001-10	Indoor, ambient and workplace air – Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography – Part 1: Sampling with a pump	K, N

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8.2.2 Determination of microbiological contents in indoor areas

MS-0024492 2018-10	Determination of concentration of airborne germ content in ambient and indoor air – Airborne germ measurement	N
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8.2.3 Analysis of hazardous substances at the workplace

BGIA 6045 2009-11	Aldehydes	K, N
IFA 6072 2014-04	Amines, aliphatic I	K, N
BGIA 6073 2010-10	Amines, aliphatic II and aromatic II	K, N
BGIA 6172 2007-04	Inorganic acids, volatile: Hydrogen bromide, hydrogen chloride, nitric acid	N
BGIA 6173 2010-12	Inorganic acids, particulate: Phosphoric acid, sulphuric acid	N
BGIA 6265 2013-10	Benzene	N
BGIA 6272 2000-03	Benzo(a)pyrene	N
BGIA 6385 1997-04	1-butanol	N
BGIA 6600 2006-10	Chlorinated HC, aliphatic	N
IFA 6665 2014-10	Chromium(VI) compounds	K, N
BGIA 6725 2012-11	Hydrogen cyanide (HCN) and cyanides (CN)	N
BGIA 7120 2010-12	Diisocyanates, monomeric (2,4-TDI, 2,6-TDI, 2,4 MDI, 4,4-MDI, HDI, IPDI and NDI)	N
BGIA 7330 1997-04	Ethanol	N

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BGIA 7322 2009-05	Acetic acid esters	N
BGIA 7512 2006-05	Fluorides and hydrogen fluoride	N
BGIA 7520 2007-11	Formaldehyde (measurement method 2: for higher concentrations, measurement method 3: see BGIA 6045, aldehydes)	N
BGIA 7708 2005-04	Ketones, e.g. butanone	N
BGIA 7732 2011-11	Hydrocarbons, aliphatic	N
BGIA 7733 2005-04	Hydrocarbons, aromatic	N
BGIA 7735 2009-11	Hydrocarbon mixtures	N
BGIA 7750 1997-11	Cooling lubricants	N
BGIA 7808 2013-12	Metals (arsenic, beryllium, cadmium, cobalt, nickel) and their compounds (ICP mass spectrometry)	N
IFA 7810 2015-10	Methanol	N
BGIA 8000 1997-11	Mineral oils, steam and aerosol	N
BGIA 8580/4 2007-04	Sulphuric acid	N
BGIA 8635 2011-05	Styrene and methylstyrenes	N
BGI 505-4 1992-10	Method for determination of benzene	K

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ISO 15202-2 2012-02	Workplace air – Determination of metals and metalloids in airborne particulate matter by inductively coupled plasma atomic emission spectrometry – Part 2: Sample preparation	K, N
ISO 15202-3 2004-11	Workplace air – Determination of metals and metalloids in airborne particulate matter by inductively coupled plasma atomic emission spectrometry – Part 3: Analysis	K, N
NIOSH 1400 1994-08	Alcohols I (ethanol, isopropanol)	K
NIOSH 1401 1994-08	Alcohols II (butanol, all isomers)	K
NIOSH 1450 2003-03	Esters I	K
NIOSH 1500 2003-03	Hydrocarbons	K
NIOSH 1501 2003-03	Hydrocarbons, aromatic	K
NIOSH 1003 2003-03	Hydrocarbons, halogenated	K
NIOSH 2553 2003-03	Ketones I + II	K
NIOSH 2555 2003-03	Ketones I + II	K
NIOSH 6015 1994-08	Ammonia	K

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9 Microbiological analyses

Cultural bacteriological and mycological methods, microbiological test systems for the analysis of commodity goods and cosmetic products

9.1 Microbiological analysis of commodity goods and other solids, antimicrobial effectiveness

JIS Z 2801 2012	Japanese Industrial Standard Antibacterial products - Test for antibacterial activity and efficacy	N
DIN EN ISO 846 1997-10	Determination of the action of microorganisms on plastics (A - C)	N
ISO 22196 2011-08	Plastics – Measurement of antibacterial activity on plastics and other non-porous surfaces	N
DIN EN 1104 2019-01	Paper and board intended to come into contact with foodstuffs – Determination of the transfer of antimicrobial constituents	N
MS-0024558 2018-10	Microbiological hygiene testing of whirlpool baths or comparable products in accordance with LGA testing guideline	N
MS-0024561 2014-02	Determination of surface colony count on fitment and utensils in food areas in accordance with DIN 10113-(1-3)	N
MS-0024572 2016-01	Determination of the surface colony count on boxes, solid board and corrugated paper base papers using overlay methods	N

9.2 Microbiological analysis of cosmetic products and water-containing toys

Ph. Eur. 9th Edition 2017	Microbiological testing of non-sterile products: Enumeration of microorganisms capable of reproduction (2.6.12)	N
Ph. Eur. 9th Edition 2017	Microbiological testing of non-sterile products: Detection of specified micro-organisms (2.6.13)	N
Ph. Eur. 9th Edition 2017	Testing for adequate preservation (5.1.3)	N

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Ph. Eur. 9th Edition 2017	Microbiological quality of non-sterile pharmaceutical preparations and substances for pharmaceutical use (5.1.4)	N
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10 Technical analysis of textiles, leather, footwear, plastics, personal protective equipment

10.1 Textiles

DIN EN ISO 105-A01 2010-05	Textiles - Tests for colour fastness - Part A01: General principles of testing	K, L
DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour	K, L
DIN EN 20105-A03 1994-10	Textiles - Tests for colour fastness - Part A03: Grey scale for assessing staining	K, L
DIN EN ISO 105-B02 2014-11	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	K, L
DIN EN ISO 105-B04 1997-05	Textiles – Tests for colour fastness – Part B04: Colour fastness to artificial weathering: Xenon arc fading lamp test	L
DIN EN ISO 105-B06 2004-07	Textiles - Tests for colour fastness - Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test	L
DIN EN ISO 105-B08 2017-08	Textiles - Tests for colour fastness - Part B08: Quality control of blue wool reference materials 1 to 7	K, L
DIN EN ISO 105-C06 2010-08	Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering	L
DIN EN ISO 105-C10 2007-06	Textiles - Tests for colour fastness - Part C10: Colour fastness to washing with soap or soap and soda	L
DIN EN ISO 105-D01 2010-10	Textiles - Tests for colour fastness - Part D01: Colour fastness to dry cleaning using perchloroethylene solvent	L
DIN EN ISO 105-E01 2013-06	Textiles - Tests for colour fastness - Part E01: Colour fastness to water	L

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DIN EN ISO 105-E02 2013-06	Textiles - Tests for colour fastness - Part E02: Colour fastness to seawater	L
DIN EN ISO 105-E03 2010-08	Textiles - Tests for colour fastness - Part E03: Colour fastness to chlorinated water (swimming-pool water)	L
DIN EN ISO 105-E04 2013-08	Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration	L
DIN EN 20105-N01 1995-03	Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite	L
DIN EN ISO 105-X05 1997-05	Textiles - Tests for colour fastness - Part X05: Colour fastness to organic solvents	L
DIN EN ISO 105-X10 1995-12	Textiles - Tests for colour fastness - Part X10: Assessment of migration of textile colours into polyvinyl chloride coatings	L
DIN EN ISO 105-X11 1996-10	Textiles - Tests for colour fastness - Part X11: Colour fastness to hot pressing	L
DIN EN ISO 105-X12 2016-11	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing	K, L, N
DIN EN 12127 1997-12	Textiles - Fabrics - Determination of mass per unit area using small samples	L
DIN EN ISO 12945-2 2000-11	Textiles – Determination of fabric propensity to surface fuzzing and to pilling – Part 2: Modified Martindale method	L
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	L
DIN EN ISO 12947-2 2017-03	Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Part 2: Determination of specimen breakdown	L
DIN EN ISO 12947-3 2007-04	Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Part 3: Determination of mass loss	L

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DIN EN ISO 12947-4 2007-04	Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Part 4: Assessment of appearance change	L
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	L
DIN EN ISO 13934-2 2014-06	Textiles - Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method	L
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	L
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	L
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	L
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	L
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)	L
DIN EN ISO 13938-1 1999-10	Textiles – Bursting properties of fabrics – Part 1: Hydraulic method for determination of bursting strength and bursting distension	L
DIN EN ISO 13938-2 1999-10	Textiles – Bursting properties of fabrics – Part 2: Pneumatic method for determination of bursting strength and bursting distension	L
DIN 53859-4 1977-02	Testing of textiles – tear growth test on textile fabrics, non-woven textiles <i>(standard withdrawn)</i>	L

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DIN EN 29073-3 1992-08	Textiles - Test methods for non-wovens - Part 3: Determination of tensile strength and elongation (ISO 9073-3:1989)	L
DIN EN ISO 1833-1 2011-01	Textiles – Quantitative chemical analysis – Part 1: General principles of testing	K
DIN EN ISO 1833-7 2011-01	Textiles – Quantitative chemical analysis – Part 7: Mixtures of polyamide and certain other fibres (method using formic acid)	K
DIN EN ISO 1833-11 2011-01	Textiles – Quantitative chemical analysis – Part 11: Mixtures of cellulose and polyester fibres (method using sulphuric acid)	K
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)	K
DIN EN ISO 1833-16 2011-01	Textiles – Quantitative chemical analysis – Part 16: Mixtures of polypropylene fibres and certain other fibres (method using xylene)	K
DIN EN ISO 1833-20 2011-01	Textiles – Quantitative chemical analysis – Part 20: Mixtures of elastane and certain other fibres (method using dimethylacetamide)	K
DIN 54204 1975-08	Testing of textiles; quantitative analysis of binary mixtures, wool with other fibres, potassium hydroxide solution method	K
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	L
DIN EN ISO 3758 2013-12	Textiles – Care labelling code using symbols	L
DIN EN ISO 3759 2011-08	Textiles - Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change	L

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DIN EN ISO 4920 2012-12	Textile fabrics – Determination of resistance to surface wetting (spray test)	L
DIN EN ISO 5077 2008-04	Textiles – Determination of dimensional change in washing and drying	L
DIN EN ISO 6330 2013-02	Textiles – Domestic washing and drying procedures for textile testing	L
DIN EN ISO 9237 1995-12	Textiles – Determination of permeability of fabrics to air	L
DIN EN ISO 811 2018-08	Textiles – Determination of resistance to water penetration – Hydrostatic pressure test	L
DIN EN 29865 1993-11	Textiles – Determination of water-repellency of fabrics by the Bundesmann rain-shower test	L
EN 1101 1995-11 EN 1101/A1 2005-06	Textiles – Burning behaviour of curtains and drapes – Detailed method for determination of the ignitability of vertically oriented specimens (small flame)	L
EN 1102 2016-08	Textiles – Burning behaviour of curtains and drapes – Detailed method for determination of flame propagation properties of vertically oriented specimens	L
EN 1103 2005-12	Textiles – Fabrics for apparel – Detailed procedure to determine the burning behaviour	L
EN ISO 6941 2003-12	Textiles – Burning behaviour – Measurement of flame spread properties of vertically oriented specimens	L
ISO 5085-1 1989-11	Textiles; determination of thermal resistance; Part 1: Low thermal resistance	L
DIN EN ISO 139 2011-10	Textiles – Standard atmospheres for conditioning and testing	L
DIN EN ISO 1421 2017-03	Rubber- or plastics-coated fabrics - Determination of tensile strength and elongation at break	L
DIN EN ISO 7854 1997-04	Rubber- or plastics-coated fabrics – Determination of resistance to damage by flexing	L

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DIN EN ISO 32100 2011-04	Rubber- or plastics-coated fabrics – Physical and mechanical tests – Determination of flex resistance by the flexometer method	L
EN ISO 4674-1 2016-11	Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 1: Constant rate of tear methods	L
EN ISO 4892-2 2013-03	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps	L
ISO 4675 1990-07	Rubber- or plastics-coated fabrics – Low-temperature bend test	L
DIN CEN/TR 16792; DIN SPEC 60008 2015-11	Safety of children's clothing – Recommendations for the design and manufacture of children's clothing – Mechanical safety (risk assessment: K, testing L)	K, L
DIN EN ISO 14682 2015-03	Safety of children's clothing – Cords and drawstrings on children's clothing – Specifications	L
DIN EN 1021-1 2014-10	Furniture – Assessment of the ignitability of upholstered furniture – Part 1: Ignition source: smouldering cigarette	L
ASTM E96 / E96M - 16 2016	Standard Test Methods for Water Vapor Transmission of Materials	L
BS 4407 1988-07	Methods for quantitative analysis of fibre mixtures	K
GOST 31422 2010	Knitted outerwear for children. Norms of psychohygienic indices.	K
GOST 3816 1981	Textile fabrics. Methods for the determination of hygroscopic water-repellant properties	K

10.2 Footwear, leather

DIN 53325 1974-01	Testing of leather; ball compression test for determination of grain expansion capacity and the force of fracture with the lastometer <i>(standard withdrawn)</i>	L
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DIN 53340 1979-06	Testing of leather; determination of the behaviour at permanent folding of semi-flexible leathers	L
DIN EN 13336 2012-12	Leather – Upholstery leather characteristics – Guide for selection of leather for furniture	L
DIN EN 14906 2012-08	Leather – Leather for automotive – Test methods and testing parameters	L
DIN EN ISO 2417 2016-07	Leather – Physical and mechanical tests – Determination of the static absorption of water	L
DIN EN ISO 2419 2012-05	Leather – Physical and mechanical tests – Sample preparation and conditioning	L
DIN EN ISO 2420 2017-05	Leather – Physical and mechanical tests – Determination of apparent density and mass per unit area	L
DIN EN ISO 2589 2016-07	Leather – Physical and mechanical tests – Determination of thickness	L
DIN EN ISO 3376 2012-03	Leather - Physical and mechanical tests - Determination of tensile strength and percentage extension	L
DIN EN ISO 3377-1 2012-03	Leather – Physical and mechanical tests – Determination of tear load – Part 1: Single edge tear	L
DIN EN ISO 3377-2 2016-07	Leather – Physical and mechanical tests – Determination of tear load – Part 2: Double-edge tear	L
DIN EN ISO 3380 2015-12	Leather – Physical and mechanical tests – Determination of shrinkage temperature up to 100 °C	L
DIN EN ISO 5403-1 2012-03	Leather – Determination of water resistance of flexible leather – Part 1: Repeated linear compression (penetrometer)	L
DIN EN ISO 5404 2012-03	Leather – Physical test methods – Determination of water resistance of heavy leathers	L
DIN EN ISO 11640 2018-11	Leather – Tests for colour fastness – Colour fastness to cycles of to-and-fro rubbing	K, L

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DIN EN ISO 11641 2013-02	Leather – Tests for colour fastness – Colour fastness to perspiration	L
DIN EN ISO 11642 2013-02	Leather – Tests for colour fastness – Colour fastness to water	L
DIN EN ISO 11644 2009-09	Leather - Test for adhesion of finish	L
DIN EN ISO 14268 2013-03	Leather – Physical and mechanical tests – Determination of water vapour permeability	L
DIN EN ISO 14931 2015-06	Leather – Guide to the selection of leather for apparel (excluding furs)	L
DIN EN ISO 15700 1999-10	Leather – Tests for colour fastness – Colour fastness to water spotting	L
DIN EN ISO 15702 1999-10	Leather – Tests for colour fastness – Colour fastness to machine washing	L
DIN EN ISO 15703 1999-10	Leather – Tests for colour fastness – Colour fastness to mild washing	L
DIN EN ISO 17074 2011-02	Leather – Physical and mechanical tests – Determination of resistance to horizontal spread of flame	L
DIN EN ISO 17131 2012-12	Leather – Identification of leather with microscopy	L
DIN EN ISO 17186 2012-03	Leather – Physical and mechanical tests – Determination of surface coating thickness	L
DIN EN ISO 17227 2003-10	Leather – Physical and mechanical tests – Determination of dry heat resistance of leather	L
DIN EN ISO 17228 2015-06	Leather – Tests for colour fastness – Change in colour with accelerated ageing	L
DIN EN ISO 17229 2016-06	Leather – Physical and mechanical tests – Determination of water vapour absorption	L
DIN EN ISO 17233 2017-05	Leather – Physical and mechanical tests – Determination of cold crack temperature of surface coatings	L

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DIN EN ISO 20701 2018-05	Leather – Tests for colour fastness – Colour fastness to saliva	L
EN ISO 5402-1 2017-02	Leather – Determination of flex resistance – Part 1: Flexometer method	L
EN ISO 23910 2017-02	Leather – Physical and mechanical tests – Measurement of stitch tear resistance	L
ISO 20433 2012-10	Leather – Tests for colour fastness – Colour fastness to crocking	L
DIN EN 12770 2000-03	Footwear – Test methods for outsoles – Abrasion resistance	L
DIN EN 12771 2000-03	Footwear – Test methods for outsoles – Tear strength	L
DIN EN 12772 2000-01	Footwear – Test methods for outsoles – Dimensional stability	L
DIN EN 12773 2000-01	Footwear – Test methods for outsoles – Needle tear strength	L
DIN EN 13520 2005-03	Footwear – Test methods for uppers, lining and insoles – Abrasion resistance	L
DIN EN 13522 2002-04	Footwear – Test methods for uppers – Breaking strength and elongation	L
DIN EN ISO 17693 2005-12	Footwear – Test methods for uppers – Resistance to damage on lasting	L
DIN EN ISO 17694 2016-10	Footwear – Test methods for uppers and lining – Flex resistance	L
DIN EN ISO 17695 2005-12	Footwear – Test methods for uppers – Deformability	L
DIN EN ISO 17696 2018-12	Footwear – Test methods for uppers, lining and insoles – Tear strength	L
DIN EN ISO 17697 2016-10	Footwear – Test methods for uppers, lining and insoles – Seam strength	L

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DIN EN ISO 17700 2005-12	Footwear – Test methods for uppers, linings and insoles – Colour fastness to rubbing – Methods A and C	L
DIN EN ISO 17701 2016-12	Footwear – Test methods for uppers, lining and insoles – Colour migration	L
DIN EN ISO 17706 2018-12	Footwear – Test methods for uppers – Tensile strength and elongation	L
DIN EN ISO 17707 2005-10	Footwear – Test methods for outsoles – Flex resistance	L
DIN EN ISO 17708 2018-10	Footwear – Test methods for whole shoe – Upper sole adhesion	L
DIN EN ISO 22774 2005-03	Footwear – Test methods for accessories: Shoe laces – Abrasion resistance	L
DIN EN ISO 22775 2005-03	Footwear – Test methods for accessories: Metallic accessories – Corrosion resistance	L
ISO 20863 2018-03	Footwear – Test methods for stiffeners and toepuffs – Bondability	L
ISO 20864 2004-12	Footwear – Test methods for stiffeners and toepuffs – Mechanical characteristics	L
ISO 20871 2018-03	Footwear – Test methods for outsoles – Abrasion resistance	L
ISO 20872 2018-03	Footwear – Test methods for outsoles – Tear strength	L
ISO 20873 2018-03	Footwear – Test methods for outsoles – Dimensional stability	L
ISO 20874 2018-03	Footwear – Test methods for outsoles – Needle tear strength	L
ISO/TR 20572 2007-02	Footwear – Performance requirements for components for footwear – Accessories	L
ISO/TR 20573 2007-02	Footwear – Performance requirements for components for footwear – Heels and top pieces	L

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ISO/TR 20879 2007-02	Footwear – Performance requirements for components for footwear – Uppers	L
ISO/TR 20880 2007-02	Footwear – Performance requirements for components for footwear – Outsoles	L
ISO/TR 20881 2007-02	Footwear – Performance requirements for components for footwear – Insoles	L
ISO/TR 20882 2007-02	Footwear – Performance requirements for components for footwear – Lining and insoles	L
ISO/TR 20883 2007-02	Footwear – Performance requirements for components for footwear – Shanks	L
ISO/TR 22648 2007-02	Footwear – Performance requirements for components for footwear – Stiffeners and toepuffs	L
DIN 53506 1990-12	Testing of rubber; determination of needle tear resistance	L
DIN EN ISO 868 2003-10	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)	L
DIN ISO 4649 2014-03	Rubber, vulcanised or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device	L
DIN ISO 7619-1 2012-02	Rubber, vulcanised or thermoplastic - Determination of indentation hardness - Part 1: Durometer method (Shore hardness)	L
DIN ISO 7619-2 2012-02	Rubber, vulcanised or thermoplastic - Determination of indentation hardness - Part 2: IRHD pocket meter method	L
ISO 2023 1994-12	Rubber footwear – Lined industrial vulcanised-rubber boots – Specifications <i>(standard withdrawn)</i>	L
ISO 4643 1992-02	Moulded plastics footwear; lined or unlined poly(vinyl chloride) boots for general industrial use; specification	L
ISO 5423 1992-02	Moulded plastics footwear; lined or unlined polyurethane boots for general industrial use; specification	L

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RAL-GZ 430/3 2016-01	Special quality and test specifications for tables, chairs, corner benches – Quality assurance	L
RAL-GZ 430/4 2016-01	Special quality and test specifications for upholstered furniture – Quality assurance	L
RAL-GZ 430/5 2016-01	Special quality and test specifications for beds – Quality assurance	L
VDA 230-204 2005-04	Coating thickness measurement – Determination of the finishing thickness on leather	L
VDA 230-216 2013-08	Test methods for leather in the automotive industry	L

10.3 Personal protective equipment

EN 342 2017-11	Protective clothing – Ensembles and garments for protection against cold	L
EN 343+A1 2007-08	Protective clothing – protection against rain	L
EN 469 2005-12 EN 469/A1 2006-11	Protective clothing for firefighters – Performance requirements for protective clothing for firefighting	L
EN 530 2010-07	Abrasion resistance of protective clothing material – Test methods	L
EN 863 1995-09	Protective clothing – Mechanical properties – Test method: Puncture resistance	L
EN 1149-1 2006-06	Protective clothing – Electrostatic properties – Part 1: Surface resistivity (test methods and requirements)	L
EN 1149-2 1997-08	Protective clothing – Electrostatic properties – Part 2: Test method for measurement of the electrical resistance through a material (vertical resistance)	L
EN 1149-5 2018-09	Protective clothing – Electrostatic properties – Part 5: Material performance and design requirements	L

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EN 1150 1999-01	Protective clothing – Visibility clothing for non professional use – Test methods and requirements	L
EN 1486 2007-10	Protective clothing for fire-fighters – Test methods and requirements for reflective clothing for specialised fire-fighting	L
EN 13911 2017-08	Protective clothing for firefighters – Requirements and test methods for fire hoods for firefighters	L
EN 14058 2004-06	Protective clothing – Garments for protection against cool environments	L
EN 14325 2018-06	Protective clothing against chemicals – Test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages	L
EN 14605+A1 2009-05	Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])	L
EN ISO 6530 2005-02	Protective clothing – Protection against liquid chemicals – Test method for resistance of materials to penetration by liquids	K
EN ISO 6942 2002-06	Protective clothing – Protection against heat and fire – Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat	L
EN ISO 9151 2016-12	Protective clothing against heat and flame – Determination of heat transmission on exposure to flame	L
EN ISO 11611 2015-07	Protective clothing for use in welding and allied processes	L
EN ISO 11612 2015-07	Protective clothing for workers exposed to heat	L
EN ISO 12127-1 2015-12	Clothing for protection against heat and flame – Determination of contact heat transmission through protective clothing or constituent materials – Part 1: Contact heat produced by heating cylinder	L

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EN ISO 13688 2013-07	Protective clothing – General requirements	L
EN ISO 13982-1 2004-11 EN ISO 13982-1/A1 2010-10	Protective clothing for use against solid particulates – Part 1: Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates (type 5 clothing)	L
EN ISO 13997 1999-08	Protective clothing – Mechanical properties – Determination of resistance to cutting by sharp objects	L
EN ISO 14877 2002-10	Protective clothing for abrasive blasting operations using granular abrasives	L
EN ISO 15025 2016-12	Protective clothing – Protection against flame – Method of test for limited flame spread	L
EN ISO 17491-3 2008-08	Protective clothing – Test methods for clothing providing protection against chemicals – Part 3: Determination of resistance to penetration by a jet of liquid	L
EN ISO 17491-4 2008-08 EN ISO 17491-4/A1 2016-03	Protective clothing – Test methods for clothing providing protection against chemicals – Part 4: Determination of resistance to penetration by a spray of liquid	L
EN ISO 20471 2013-03 EN ISO 20471/A1 2016-11	High visibility clothing – Test methods and requirements	L
ISO 17493 2016-12	Clothing and equipment for protection against heat – Test method for convective heat resistance using a hot air circulating oven	L
EN ISO 374-1 2016-11 EN ISO 374-1/A1 2018-07	Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks	L
EN 374-2 2014-12	Protective gloves against dangerous chemicals and micro-organisms – Part 2: Determination of resistance to penetration	L

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EN 374-4 2013-11	Protective gloves against chemicals and micro-organisms – Part 4: Determination of resistance to degradation by chemicals	K
EN ISO 374-5 2016-11	Protective gloves against dangerous chemicals and micro-organisms – Part 5: Terminology and performance requirements for micro-organisms risks	L
EN 16523-1+A1 2018-10	Determination of material resistance to permeation by chemicals – Part 1: Permeation by liquid chemical under conditions of continuous contact (except test chemical hydrogen peroxide)	K
EN 388 2016-11	Protective gloves against mechanical risks	L
EN 407 2004-09	Protective gloves against thermal risks (heat and/or fire)	L
EN 420+A1 2009-11	Protective gloves – General requirements and test methods	L
EN 511 2006-04	Protective gloves against cold	L
EN 659+A1 2008-03	Protective gloves for firefighters	K, L
EN 12477 2001-10 EN 12477/A1 2005-06	Protective gloves for welders	L
ISO 15383 2001-09	Protective gloves for firefighters – Laboratory test methods and performance requirements	L
EN 12568 2010-05	Foot and leg protectors – Requirements and test methods for toecaps and penetration resistant inserts	L
EN 13832-1 2018-10	Footwear protecting against chemicals – Part 1: Terminology and test methods	K, L
EN 13832-2 2018-11	Footwear protecting against chemicals – Part 2: Requirements for limited contact with chemicals	K, L

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EN 13832-3 2018-11	Footwear protecting against chemicals – Part 3: Requirements for prolonged contact with chemicals	K, L
EN 15090 2012-01	Footwear for firefighters	L
EN IEC 61340-4-3 2018-03	Electrostatics – Part 4-3: Standard test methods for specific applications – Footwear	L
EN 61340-5-1 2016-11	Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena – General requirements	L
EN ISO 13287 2012-10	Personal protective equipment – Footwear – Test method for slip resistance	L
EN ISO 17249 2013-11	Safety footwear with resistance to chain saw cutting	L
EN ISO 20344 2011-12	Personal protective equipment – Test methods for footwear	L
EN ISO 20345 2011-12	Personal protective equipment – Safety footwear	L
EN ISO 20346 2014-05	Personal protective equipment – Protective footwear	L
EN ISO 20347 2012-02	Personal protective equipment – Occupational footwear	L
EN ISO 20349-1 2017-08	Personal protective equipment – Footwear protecting against risks in foundries and welding – Part 1: Requirements and test methods for protection against risks in foundries	L
EN ISO 20349-2 2017-09	Personal protective equipment – Footwear protecting against risks in foundries and welding – Part 2: Requirements and test methods for protection against risks in welding and allied processes	L
EN 13356 2001-07	Visibility accessories for non-professional use – Test methods and requirements	L

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DIN ISO 2859-1 2014-08	Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection	L
ASTM F1976-13 2013-01	Standard Test Method for Impact Attenuation for Athletic Shoe Cushioning Systems and Materials	L
ASTM F2412-18a 2018-01	Standard Test Method for Foot Protection	L
ASTM F2413-11 2011-01	Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear	L
ASTM F2892-18 2018-01	Standard Specification for Performance Requirements for Soft Toe Protective Footwear (Non-Safety/ Non-Protective Toe)	L
ASTM F2913-11 2011-01	Standard Test Method for Measuring the Coefficient of Friction for Evaluation of Slip Performance of Footwear and Test Surfaces/Flooring Using a Whole Shoe Tester	L
ANSI/ISEA 105 2016-01	Hand Protection Classification	K, L
ANSI/ISEA 107 2015-01	High-Visibility Safety Apparel and Accessories	L
ANSI/ISEA 207 2011-01	American National Standard for High-Visibility Public Safety Vest <i>(standard withdrawn)</i>	L
AS/NZS 1906.4:2010 2010-01 AS/NZS 1906.4:2010/Amd 1:2014 2014-01	Retroreflective materials and devices for road traffic control purposes - High visibility materials for safety garments	L
AS/NZS 2161.6:2014 2014-01	Occupational protective gloves - Protective gloves for structural firefighting - Laboratory test methods and performance requirements	L
AS/NZS 2210.3:2009 2009-01	Occupational protective footwear - Specification for safety footwear	L

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AS/NZS 2210.4:2009 2009-01	Occupational protective footwear - Specification for safety footwear	L
AS/NZS 2210.5:2009 2009-01	Occupational protective footwear - Specification for safety footwear	L
AS/NZS 4602.1:2011 2011-01	High visibility safety garments - Garments for high risk applications	L
AS/NZS 4821:2014 2014-01	Protective footwear for firefighters - Requirements and test methods	L
CSA Z195-14 2014-07	Protective Footwear	L
CSA Z96-15 2015-11	High visibility safety apparel	L
2 PfG 2386/04.14 2014-04	Safety requirements and test methods for laser protective textiles	L
2 PfG 2573/06.16 2016-06	Retroreflective clothing	L
2 PfG 2599/01.17 2017-01	Requirements and test methods for apiculture protective clothing	L
10.4 Plastics		
DIN EN ISO 4892-1 2016-10	Plastics – Methods of exposure to laboratory light sources – Part 1: General guidelines	L
DIN EN ISO 4892-3 2016-10	Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps	L
DIN ISO 23529 2012-10	Rubber - General procedures for preparing and conditioning test pieces for physical test methods	L
ISO 1817 2015-02	Rubber, vulcanised or thermoplastic - Determination of the effect of liquids	L
ISO 188 2011-10	Rubber, vulcanised or thermoplastic – Accelerated ageing and heat resistance tests	L

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ISO 34-1 2015-06	Rubber, vulcanised or thermoplastic – Determination of tear strength – Part 1: Trouser, angle and crescent test pieces	L
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11 Mechanical-physical testing of toys

EN 71-1+A1 2018-06	Safety of toys – Part 1: Mechanical and physical properties	N
EN 71-2+A1 2014-03	Safety of toys – Part 2: Flammability	N
EN 71-4 2013-02	Safety of toys – Part 4: Experimental sets for chemistry and related activities (without section 5.2.6 Test method for borosilicate glass)	N
DIN EN 71-8 2018-03 EN 71-8 2018-01	Safety of toys – Part 8: Activity toy for domestic use	N
EN 71-14 2018-12	Safety of toys – Part 14: Trampolines for domestic use	N
ISO 8124-1 2018-03	Safety of toys – Part 1: Safety aspects related to mechanical and physical properties	N
ISO 8124-2 2014-08	Safety of toys – Part 2: Flammability	N
ISO 8124-4 2014-10 ISO 8124-4-AMD 1 2017-07	Safety of toys – Part 4: Swings, slides and similar activity toys for indoor and outdoor family domestic use	N
ISO/TR 8124-8 2016-02	Safety of toys – Part 8: Age determination guidelines	N
EN 12586+A1 2011-01	Child use and care articles – Soother holder – Safety requirements and test methods	N

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EN 62115 2005-04	Electric toys – Safety	N
EN 62115:2005/A2 2011-07 EN 62115:2005/A2/AC:2011 2011-08	Electric toys – Safety	N
EN 62115:2005/A11 2012-09 EN 62115:2005/A11/AC:2013 2013-05	Electric toys – Safety	N
EN 62115:2005/A12 2015-01	Electric toys – Safety	N
ASTM F963-17 2017 ASTM F963-18 / -19 2018 / 2019	Standard Consumer Safety Specification for Toy Safety 4.3.5.1(2) Surface Coating Materials - Soluble Test for Metals 4.3.5.2 Toy Substrate Materials 4.3.6. Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather Origin 4.3.7 Stuffing Materials 4.5 Sound Producing Toys 4.6 Small Objects 4.7 Accessible Edges 4.8 Projections 4.9 Accessible Points 4.10 Wires or Rods 4.11 Nails and Fasteners 4.12 Plastic Film 4.13 Folding Mechanisms and Hinges 4.14 Cords, Straps, and Elastics 4.15 Stability and Overload Requirements 4.16 Confined Spaces 4.17 Wheels, Tires, and Axles 4.18 Holes, Clearances, and Accessibility of Mechanisms 4.19 Simulated Protective Devices 4.21 Projectile Toys 4.22 Teethers and Teething Toys 4.23.1 Rattles with nearly Spherical, Hemispherical, or Circular Flared Ends 4.24 Squeeze Toys 4.25 Battery-Operated Toys	N

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	4.26 Toys Attached to a Crib or Playpen	
	4.27 Stuffed and Beanbag-Type Toys	
	4.30 Toy Gun Marking	
	4.32 Certain Toys with Nearly Spherical Ends	
	4.35 Pompoms	
	4.36 Hemispheric-Shaped Objects	
	4.37 Yo-Yo Elastic Tether Toys	
	4.38 Magnets	
	4.39 Jaw Entrapment in Handles and Steering Wheel	
	4.40 Expanding Materials	
	4.41 Toy Chests	
16 CFR Part 1501 1991-09	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	N
16 CFR Part 1505 1986-09	Requirements for electrically operated toys or other electrically operated articles intended for use by children	N
16 CFR Part 1510 1978-05	Requirements for Rattles	N
16 CFR Part 1610 2008-10	Standard for the Flammability of Clothing Textiles	N
ANSI C18.1M Part 1 2015-01	Standard for Portable Primary Cells and Batteries with Aqueous Electrolyte – General and Specifications	N
ASTM F1148-18 2018	Consumer Safety Performance Specification for Home Playground Equipment	N

12 Testing of emission of dangerous substances of construction products, where reference to a relevant harmonised technical specification is not required (point 3. Annex V, (EU) No. 305/2011)

DIN EN 16516 2018	Construction products – Assessment of release of dangerous substances – determination of emissions into indoor air	N
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The requirements for a testing laboratory in accordance with Article 43 of the Construction Product are fulfilled.

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Abbreviations used:

AfPS	Ausschuss für Produktsicherheit (Committee for Product Safety)
ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
AS/NZS	Australian/New Zealand Standard
ASU	Amtliche Sammlung von Untersuchungsverfahren (Official Collection of Test Methods) on the basis of Section 64 LFGB (German Food and Feed Act) (or Section 35 LMBG) of the Federal Office of Consumer Protection and Food Safety (BVL)
BGI	Berufsgenossenschaftliche Informationen (information from Employer's Liability Insurance Association)
BGIA	Berufsgenossenschaftliches Institut für Arbeitsschutz (German Institute for Occupational Safety and Health)
BIFMA	The Business and Institutional Furniture Manufacturer's Association
BS	British Standard
CFR	Code of Federal Regulations
CPSC	Consumer Product Safety Commission
CR	CEN Report
DEV	Deutsche Einheitsverfahren der Wasseruntersuchung (German standard methods of water analysis)
DGHM	Deutsche Gesellschaft für Hygiene und Mikrobiologie (German Society for Hygiene and Microbiology)
DIN	Deutsches Institut für Normung e. V. (German Institute for Standardization)
EN	European standard
EPA	Environmental Protection Agency, USA
GOST	Gosudarstvennyj Standart (national standard, Russia)
GS	Geprüfte Sicherheit (tested safety)
IEC	International Electrotechnical Commission
IFA	Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (DGUV) (Institute for Occupational Safety and Health of the German Social Accident Insurance)
ISO	International Organization for Standardization
JIS	Japanese Industrial Standard
KTW	Kunststoffe und Trinkwasser (plastics and drinking water)
MS	Management System
NIOSH	National Institute for Occupational Safety and Health
Ph. Eur.	European Pharmacopoeia
PSA	Personal protective equipment
DIR	Directive
SNV	Schweizer Normen Vereinigung (Swiss Standards Association)

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VDA	Verband der Automobilindustrie (Association of the German Automotive Industry)
VDE	Verband der Elektrotechnik Elektronik Informationstechnik e. V. (Association for Electrical, Electronic & Information Technologies)
VDI	Verein deutscher Ingenieure (Association of German Engineers)
VdL	Verband der deutschen Lack- und Druckfarbenindustrie e. V. (Association of the German Paint and Printing Ink Industry)

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