Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-12083-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **02.12.2025**

Date of issue: 02.12.2025

This annex is part of the Accreditation Certificate D-PL-12083-01-00.

Holder of the Accreditation Certificate:

Hohenstein Laboratories GmbH & Co. KG
Schloss Hohenstein, 74357 Bönnigheim

with the location

Hohenstein Laboratories GmbH & Co. KG
Schloss Hohenstein, 74357 Bönnigheim

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

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

Testing in the fields:
Consumer Health Protection

This annex to the certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS) and is digitally sealed.
This annex to the certificate is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any valid and surveyed accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

Flexible Scope of Accreditation:

Within the indicated test areas the testing laboratory is permitted without being required to prior inform and obtain approval from DAkkS

[Flex A] **to use standardised or equivalent test methods listed here with different issue dates.**

[Flex B] **to have the free choice from standardised or equivalent test methods.**

[Flex C] **to modify, develop or further develop test methods.**

The test methods listed are examples. The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

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1 Physical, physico-chemical and chemical testing of consumer goods

1.1 Clean up of Leather [Flex A]

DIN EN ISO 4684 2006-02	Leather - Chemical tests - Determination of volatile matter (ISO 4684:2005)

1.2 Determination of the pH value in eluates and extracts from textiles, leather and consumer goods by electrode measurement [Flex A]

DIN EN ISO 787-9 2019-06	General methods of test for pigments and extenders - Part 9: Determination of pH value of an aqueous suspension (ISO 787-9:1981) (Restriction: *here application to commodities*)
DIN EN ISO 3071 2020-05	Textiles - Determination of pH of aqueous extract (ISO 3071:2020)
DIN EN ISO 4045 2018-09	Leather - Chemical tests - Determination of pH and difference figure (ISO 4045:2018)

1.3 Determination of elements with atomic absorption spectrometry (AAS) in eluates and extracts from textiles, leather and consumer goods [Flex B]

DIN 38405-35 (D 35) 2004-09	Determination of arsenic - Method by graphite furnace atomic absorption spectrometry (GF-AAS)
DIN EN ISO 12846 2012-08	Water quality - Determination of mercury - Method using with and without enrichment atomic absorption spectrometry (ISO 12846:2012)

1.4 Determination of elements with inductively coupled plasma mass spectrometry (ICP/MS) in eluates and extracts from textiles, leather, consumer goods and infant articles [Flex C]

DIN EN 12472 2020-11	Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items (EN 12472:2020)
DIN EN 16711-1 2016-02	Textiles - Determination of metal content - Part 1: Determination of metals using microwave digestion (EN 16711-1:2015) (Modification: *Additional analytes: Ag, Ba, Fe, Mn, Se, Sn, Zn*)

DIN EN 16711-2 2016-02	Textiles - Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution (EN 16711-2:2015) (Modification: *Additional analytes: Ag, B, Mn, Sn, Zn*)
DIN EN 1811 2023-04	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin (EN 1811:2011+A1:2015)
DIN EN ISO 17072-1 2019-07	Leather - Chemical determination of metal content - Part 1: Extractable metals (ISO 17072-1:2019)
DIN EN ISO 17072-2 2022-12	Leather - Chemical determination of metal content - Part 2: Total metal content (ISO 17072-2:2019)
DIN EN ISO 17294-2 2024-12	Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements including uranium isotopes (ISO 17294-2:2023, Corrected version 2024-02) Except: Uranium isotopes (Modification: *here in textile and leather*)
CPSC-CH-E1001-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1002-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1003-09.1 2011-02	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
HC Part B: Method C-02.2.1 2021-06	Determination of Total Lead in Surface Coating Materials in Consumer Products by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
HC Part B: Method C-02.3.1 2021-02	Determination of Total Lead and Cadmium in Plastic Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (Modifikation: *Bestimmung mit ICP-MS*)
HC Part B: Method C-02.4.1 2019-03	Determination of Total Lead and Cadmium in Metallic Consumer Products by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) (Modifikation: *Bestimmung mit ICP-MS*)

1.5 Determination of organic compounds by means of gas chromatography with mass selective detectors (GC/MS) in eluates, extracts and emissions from textiles, leather and consumer goods [Flex C]

DIN EN 16516 2020-10	Construction products: Assessment of release of dangerous substances - Determination of emissions into indoor air (EN 16516:2020)
DIN EN 16778 2016-10	Protective gloves - The determination of Dimethylformamide in gloves (EN 16778:2016)
DIN EN 17130 2019-09	Textiles and textile products - Determination of dimethylfumarate (DMFu), method using gas chromatography (EN 17130:2019)
DIN EN 17131 2019-09	Textiles and textile products - Determination of Dimethylformamide (DMF), method using gas chromatography (EN 17131:2019) (Modification: *Microwave extraction; additional determination of solvent residues, chlorinated solvents, VOCs, glycols)*
DIN EN 17132 2019-09	Textiles and textile products - Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography (EN 17132:2019)
DIN EN 17134-2 2023-09	Textiles and textile products - Determination of biocide additives - Part 2: Chlorophenol-based preservatives, method using gas chromatography (EN 17134-2:2023)
DIN EN 17137 2025-01	Textiles and textile products - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes (EN 17137:2024) (*Modification: here also in leather*)
DIN EN 17681-2 2022- 11	Textiles and textile products - Organic fluorine - Part 2: Determination of volatile compounds by extraction method using gas chromatography (EN 17681-2:2022) (Modification: *here also in leather*)
DIN ISO 16000-6 2022-03	Indoor Air – Part 6: Determination of organic compounds in indoor and test chamber air by active sampling on sorbent tubes, thermal desorption and gas chromatography using MS or MS-FID (ISO 16000-6:2021)
DIN EN ISO 14362-1 2017-05	Textiles – Methods for the determination of certain aromatic amines derived from azo colorants. Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres (ISO 14362-1:2017)

DIN EN ISO 14362-3 2017-05	Textiles – Methods für determination of certain aromatic amines derived from azo colorants – Part 3: Detection of the use of certain azo colorants, which may release 4- aminoazobenzene (ISO 14362-3:2017)
DIN EN ISO 14389 2023-01	Textiles – Determination of the phthalate content – Tetrahydrofuran – Metod (ISO 14389:2022) (Modification: *Additional analytes: Diethyl phthalate, Dimethyl phthalate, Di-C7-11-branched and linear alkyl phthalates, branched and linear dihexal phthalates, Di-iso-octyl phthalate, Di-n-propyl phthalate, Di-n-nonyl phthalate, 1,2-Benzenedicarboxylicacid)*
DIN EN ISO 16000-9 2024-08	Indoor air - Part 9: Determination of the emission of volatile organic compounds from samples of building products and furnishing - Emission test chamber method (*here:* Determination in fiber, textile and leather samples) (EN ISO 16000-9:2024)
DIN EN ISO 16181-1 2021-07	Footwear - Critical substances potentially present in footwear and footwear components - Part 1: Determination of phthalate with solvent extraction (ISO 16181-1:2021)
DIN EN ISO 16186 2021-09	Footwear - Critical substances potentially present in footwear and footwear components - Determination of dimethyl fumarat (DMFU) (ISO 16186:2021)
DIN EN ISO 16189 2022-03	Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials (ISO 16189:2021) (Modification: *here also in textile; Microwave extraction; additional Determination of solvent residues, chlorinated solvents, VOCs, glycols*)
DIN EN ISO 16190 2022-02	Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine polycyclic aromatic hydrocarbons (PAHs) in footwear materials (ISO 16190:2021) (Modification: *here in protective gloves*)
DIN EN ISO 17070 2015-05	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content (ISO 17070:2015)
DIN EN ISO 17234-1 2020-12	Leather - Chemical tests for the determination of certain azo colourants in dyed leathers - Part 1: Determination of certain aromatic amines derived from azo colourants (ISO 17234-1:2020)

DIN EN ISO 17234-2 2011-06	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene (ISO 17234-2:2011)
DIN EN ISO 17881-1 2016-09	Textiles - Determination of certain flame retardants - Part 1: Brominated flame retardants (ISO 17881-1:2016) (Modification: *here also in Leather; additional analytes: BTBPE, TBB, MonoBDE, DiBDE, TriBDE, NonaBDE)*
DIN EN ISO 18219-1 2021-09	Leather - Determination of chlorinated hydrocarbons in leather - Part 1: Chromatographic method for short-chain chlorinated paraffins (SCCPs) (ISO 18219-1:2021) (Modification: Evaluation*; Calculation; Extraction solution*)
DIN EN ISO 18219-2 2021-09	Leather - Determination of chlorinated hydrocarbons in leather - Part 2: Chromatographic method for middle-chain chlorinated paraffins (MCCPs) (ISO 18219-2:2021)
DIN EN ISO 19070 2016-07	Leather - Chemical determination of N-methyl-2-pyrrolidone (NMP) in leather (ISO 19070:2016) (Modification: *Microwave extraction with methanol*)
DIN EN ISO 21084 2019-06	Textiles - Method for determination of alkylphenols (AP) (ISO 21084:2019) (Modification: *other alkylphenols*)
DIN EN ISO 22517 2021-11	Leather - Chemical tests - Determination of pesticide residues content (ISO 22517:2019) Except: Dichlofluanid, Pentachloanisole, Permethrin (Modification: *here also in textiles; additional analytes: 2,4,5-T, 2,4-D, acetamiprid, aldicarb, azinophosethyl, azinophosmethyl, bromophos-ethyl, captafol, carbaryl, carbendazim, chlorobenzilate, chlordane, chlordimefom, chlorfenvinphos, clothianidin, coumaphos, cyfluthrin, cyhalothrin, cypermethrin, DEF, deltamethrin, diazinon, dichlorophen, dicofol, dichlorprop, dicrotophos, dimethoate, Dinoseb (salts and acetate), dinotefuran, DTTB, endrin, esfenvalerate, fencalerate, heptachlor, hexachlorobenzene, imidacloprid, isodrin, kelevan, kepton, MCPA, MCPB, mecoprop, metamidophos, monocrotophos, nitenpyram, parathion-methyl, perthane, mevinphos, phosphamidone, propethamphos, profenophos, silafluofen, stroban, quinalphos, telodrin, thiacloprid, thiamethoxam, toxaphen, trifluraline*)
DIN EN ISO 22744-1 2020-09	Textiles and textile products - Determination of organotin compounds - Part 1: Derivatisation method using gas chromatography (ISO 22744-1:2020)

DIN EN ISO 22818 2021-06	Textiles - Determination of short-chain chlorinated paraffins (SCCP) and middle-chain chlorinated paraffins (MCCP) in textile products out of different matrices by use of gas chromatography negative ion chemical ionization mass spectrometry (GC-NCI-MS) (ISO 22818:2021)
DIN CEN ISO/TS 16179 2012-12	Footwear - Critical substances potentially present in footwear and footwear components - Determination of organotin compounds in footwear materials (ISO/TS 16179:2012)
ISO 24040 2022-04	Textiles - Determination of certain benzotriazole compounds (Modification: *Extraction method*)
ASU B 82.02-2 2017-12	Analysis of commodity goods – Methods for determination of certain aromatic amines in textiles derived from azo colourants – Part 1: Detection of the use of certain azo colourants accessible with and without extracting the fibres (Assumption of the same name standard DIN EN 14362 part 1, edition May 2017)
ASU B 82.02-3 2021-04	Analysis of commodity goods – Determination of certain azo colourants in dyed leather – Part 1: Determination of certain aromatic amines from azo dyes (Assumption of the same name standard DIN EN ISO 17234-1, edition December 2020)
ASU B 82.02-9 2014-02	Analysis of commodity goods – Determination of certain azo colourant in dyed leather– Part 2: Determination of 4-aminoazobenzene (Assumption of the same name standard DIN EN ISO 17234-2, edition June 2011)
ASU B 82.02-15 2017-12	Analysis of commodity goods – Method for the determination of certain aromatic amines in textiles derived from azo colourants – Part 3: Proof of the use of azo colourants that may release 4-aminoazobenzene (Assumption of the same name standard DIN EN 14362 Part 3, edition May 2017)
AFPS GS 2019:01 PAH 2020-04	Testing and assessment of Polycyclic Aromatic Hydrocarbons (PAH) in the awarding of the GS Marks
CPSC-CH-C1001-09.4 2018-01	Standard Operating Procedure for Determination of Phthalates
3.DEC.0113 2025-02	Determination of phthalates, UV stabilizers, some SVHC analytes and selected siloxanes in textiles and accessories using GC-MS/MS
3.DEC.0122 2025-02	Determination of the permethrin content in textiles using GC-MS/MS

3.DEC.0124 2025-02	Determination of short-chain chlorinated paraffins (SCCP) and medium-chain chlorinated paraffins (MCCP) in textiles and accessories using GC-EI-MS/MS and GC-CI-MS
3.DEC.0130 2025-02	Determination of volatile organic compounds (VOCs) in textiles, leather and accessories using thermal desorption GC-MS

1.6 Determination of organic compounds by means of liquid chromatography with conventional detectors (HPLC-DAD/FLD) in textiles, leather and consumer goods [Flex C]

DIN 54231 2022-09	Textiles – Determination of dyes after menthanol extraction (Modification: *here also in leather*)
DIN 54603 2008-08	Testing of paper, paperboard and board - Determination of glyoxal content (Modification: *here in textiles, leather and commodities; detection by HPLC-DAD)*
DIN EN 71-11 2006-01	Safety of toys - Part 11: Organic chemical compounds - Methods of analysis (EN 71-11:2005) (Modification: *here also in textiles, Determination of N-(hydroxymethyl) acrylamide)*
DIN EN ISO 13365-1 2020-12	Leather - Chemical determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography - Part 1: Acetonitrile extraction method (ISO 13365-1:2020) (Modification: *here also in textiles; additional determination of Triclosan, 2-MBT, BIT, MIT, CIT*)
DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolysed formaldehyde (water extraction method) (ISO 14184-1:2011) (Modification: *Determination by HPLC-FLD*)
DIN EN ISO 17226-1 2021-05	Leather – Chemical determination of formaldehyde content – Part 1: High-performance liquid chromatography (ISO 17226-1:2021)
ASU B 82.02-2 2017-12	Analysis of commodity goods – Methods for determination of certain aromatic amines in textiles derived from azo colourants – Part 1: Detection of the use of certain azo colourants accessible with and without extracting the fibres (Assumption of the same name standard DIN EN 14362 part 1, edition May 2017)

ASU B 82.02-3 2021-04	Analysis of commodity goods – Determination of certain azo colourants in dyed leather – Part 1: Determination of certain aromatic amines from azo dyes (Assumption of the same name standard DIN EN ISO 17234-1, edition December 2020)
ASU B 82.02-9 2014-02	Analysis of commodity goods – Determination of certain azo colourant in dyed leather– Part 2: Determination of 4-aminoazobenzene (Assumption of the same name standard DIN EN ISO 17234-2, edition June 2011)
ASU B 82.02-15 2017-12	Analysis of commodity goods – Method for the determination of certain aromatic amines in textiles derived from azo colourants – Part 3: Proof of the use of azo colourants that may release 4-aminoazobenzene (Assumption of the same name standard DIN EN 14362 Part 3, edition May 2017)
3.DEC.0134 2025-02	Determination of Azodicarbonamide in textiles, leather and accessories using HPLC-DAD
3.DEC.0139 2025-02	Determination of phenol in textiles, leather and accessories using liquid chromatography (HPLC-DAD/FLD)

1.7 Determination of organic compounds by means of liquid chromatography with mass-selective detectors (HPLC-MS) in textiles, leather and consumer goods [Flex C]

DIN 54231 2022-09	Textiles – Detection of disperse dyes after methanol extraction (Modification: *here also in leather*)
DIN EN 17134-1 2024-07	Textiles and textile products - Determination of biocide additives - Part 1: 2-Phenylphenol and triclosan, method using liquid chromatography (EN 17134-1:2024)
DIN EN 17681-1 2022-11	Textiles and textile products – Organic fluorine - Part 1: Determination of non-volatile compounds by extraction method using liquid chromatography (EN 17681-1:2022) (Modification: *here also in leather*)
E DIN EN 17681-1 2023-12	Textiles and textile products - Per- and polyfluoroalkyl substances (PFAS) - Part 1: Analysis of an alkaline extract using liquid chromatography and tandem mass spectrometry (prEN 17681-1:2023)
DIN EN 71-12 2017-03	Safety of toys - Part 12: N-Nitrosamines and N-nitrosatable substances (EN 71-12:2016) (Modification: *here in elastomers from commodities*)

DIN EN ISO 11936 2023-10	Leather - Determination of total content of certain bisphenols (ISO 11936:2023)
DIN EN ISO 17881-2 2016-09	Textiles - Determination of certain flame retardants - Part 2: Phosphorus flame retardants (ISO 17881-2:2016) (Modification: here also in Leather; additional analytes: TBBPA, BIS, BBMP, TDCPP, TXP, Tri-o-cresylphosphate, TCPP, V6, IPTPP, TBPH, TMP, TPP)
DIN EN ISO 18218-1 2023-09	Leather - Determination of ethoxylated alkylphenols (APEO) - Part 1: Direct method (ISO 18218-1:2023)
DIN EN ISO 18254-1 2016-09	Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 1: Method using HPLC-MS (ISO 18254-1:2016) (Modification: *Extraction temperature, evaluation, additional analytes: HpP, Pep, NP, OP*)
DIN EN ISO 23702-1 2023-10	Leather - Per- and polyfluoroalkyl substances - Part 1: Determination of non-volatile compounds by extraction method using liquid chromatography (ISO 23702-1:2023) (Modification: *Extraction method)*
DIN ISO 16308 2017-09	Water quality - Determination of glyphosate and AMPA - Method using high performance liquid chromatography (HPLC) with tandem mass spectrometric detection (ISO 16308:2014) (Modification: *here in textiles and leather; direct measurement without derivatization; Extraction method*)
ASU B 82.02-10 2023-02	Analyses of commodity goods – Detection of disperse dyestuffs in textiles (Assumption of the same name standard DIN 54231, edition September 2022)
3.DEC.0115 2025-02	Determination of LC-pesticides (herbicides and neonicotinoids) in textiles, accessories and leather using HPLC-MS/MS
3.DEC.0140 2025-02	Determination of bisphenols in textiles, leather, plastics and accessories using HPLC-MS/MS

1.8 Determination of anions by ion chromatography in textiles, leather and consumer goods [Flex A]

ASTM D7359-23 2023	Standard Test Method for Total Fluorine, Chlorine and Sulfur in Aromatic Hydrocarbons and Their Mixtures by Oxidative Pyrohydrolytic Combustion followed by Ion Chromatography Detection (Combustion Ion Chromatography-CIC) (Modifikation: *hier in Textilien, Leder und Zubehörteilen; keine Bestimmung von Schwefel und Chlor)*

1.9 Determination of formaldehyde and chromium(VI) by means of photometry in eluates and extracts from textiles, leather and consumer goods [Flex A]

DIN EN ISO 10195 2021-10	Leather - Chemical determination of chromium(VI) content in leather - Thermal pre-ageing of leather and determination of hexavalent chromium (ISO 10195:2018)
DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolysed formaldehyde (ISO 14184-1:2011) (water extraction method)
DIN EN ISO 17075-1 2017-05	Leather - Chemical determination of chromium(VI) content in leather - Part 1: Colorimetric method (ISO 17075-1:2017)
ISO 11083 1994-08	Water quality - Determination of chromium(VI) - Spectrometric method using 1,5-diphenylcarbazide
JIS L 1041 2011-07	Test methods for resin finished textiles (acetylacetone method)
3.DEC.0152 2025-02	Qualitative testing for the presence of formaldehyde in textiles and accessories

1.10 Determination of chromium(VI) by liquid chromatography with UV detectors in eluates and extracts from leather [Flex A]

DIN EN ISO 17075-2 2017-05	Leather - Chemical determination of chromium(VI) content in leather - Part 2: Chromatographic method (ISO 17075-2:2017)

1.11 Qualitative and sensory testing of textiles and consumer goods [Flex A]

SNV 195 651 2015-09	Textiles: Determination of the development of smell of finishings (sensory testing)
3.DEC.0798 2025-02	Qualitative detection of fluorocarbon resins on finished textiles, soda nitrate digestion
3.DEC.0799 2025-02	Determination of odor in textiles and commodities using simple odor testing
3.DEC.0730 2025-02	Beilstein test: Testing for halogenated compounds in textiles and commodities

2 Testing of materials and articles in contact with food

2.1 Sample preparation [Flex A]

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 (EN 13130-1:2004)

2.2 Paper and board for the contact with food [Flex A]

DIN EN 1541 2001-07	Paper and board intended to come into contact with foodstuffs - Determination of formaldehyde in an aqueous extract (EN 1541:2001)
DIN EN 645 1994-01	Paper and board intended to come into contact with foodstuffs; preparation of a cold water extract (EN 645:1993)

2.3 Determination of colour fastness of materials and articles in contact with food [Flex B]

DIN EN 646 2019-02	Paper and board intended to come into contact with foodstuffs - Determination of colour fastness of dyed paper and board (EN 646:2018)
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 (EN 648:2018)

2.4 Titrimetric analysis of the functional group of materials and articles in contact with food [Flex A]

BfR B II XV 10 1980-08	Testing of articles made of silicones – Part 10: Determination of peroxide residues in silicone elastomers

2.5 Sensory texting of materials and articles in contact with food [Flex B]

DIN 10955 2024-01	Sensory analysis - Testing of food contact materials and articles (FCM)

2.6 Quantitative determination from eluates of materials and articles in contact with food by graviemtry [Flex B]

DIN EN 1186-3 2022-10	Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration in evaporable simulants (EN 1186-3:2022)
BfR B II XV 14 1980-08	Testing of articles made of silicones – Part 14: Determination of volatile components in silicone elastomers
BfR B.I.8 1969-08	Overall migration residues – Testing for the presence of extractable components

2.7 Determination of organic compounds by gas chromatography with mass selective detectors (GC/MS) in materials and articles in contact with food [Flex B]

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 (EN 13130-3:2004)
DIN EN 13130-4 2004-08	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 4: Determination of 1,3-butadiene in plastics (EN 13130-4:2004)
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 (CEN/TS 13130-15:2005)

2.8 Determination of organic compounds by liquid chromatography with mass selective detectors (HPLC-MS) in materials and articles in contact with food [Flex B]

DIN EN 12868 2017-04	Child use and care articles - Method for determining the release of N-nitrosamines and N-nitrosatable substances from elastomer or rubber teats and soothers (EN 12868:2017)

DIN EN 13130-2 2004-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 2: Determination of terephthalic acid in food simulants; (EN 13130-2:2004)
DIN CEN/TS 13130-13 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 13: Determination of 2,2-bis(4-hydroxyphenyl)propane (Bisphenol A) in food simulants
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 (Modification: HPLC-MS; Restriction: only 1,3-dihydroxybenzene, 4,4'-dihydroxybenzophenone und 4,4'-dihydroxybiphenyl)
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 (CEN/TS 13130-16:2005) (Modification: Measurement using HPLC-MS)
DIN CEN/TS 13130-27 2005-05	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 27: Determination of 2,4,6-triamino-1,3,5-triazine in food simulants (CEN/TS 13130-27:2005)
EUR 24815 EN 2011 2011	Technical guidelines on testing the migration of primary aromatic amines from polyamide kitchenware and of formaldehyde from melamine kitchenware

2.9 Determination of organic compounds by liquid chromatography with conventional detectors (HPLC-DAD/FLD) in materials and articles in contact with food [Flex B]

DIN EN 13130-8 2004-08	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 8: Determination of isocyanates in plastics (EN 13130-8:2004)
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 (Modification: *HPLC-FLD; Restriction: only 1,2-dihydroxybenzene, 1,4-dihydroxybenzene)*

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 (CEN/TS 13130-23:2005) (Modification: *Measurement using HPLC-DAD/FLD*)

2.10 Determination of elements by inductively coupled plasma mass spectrometry (ICP-MS) in materials and articles in contact with food [Flex C]

DIN EN 1388-1 1995-11	Materials and articles in contact with foodstuffs - Silicate surfaces - Part 1: Determination of the release of lead and cadmium from ceramic ware (EN 1388-1:1995) (Modification: *Determination with ICP-MS*)
DIN EN 1388-2 1995-11	Materials and articles in contact with foodstuffs - Silicate surfaces - Part 2: Determination of the release of lead and cadmium from silicate surfaces other than ceramic ware (EN 1388-2:1995) (Modification: *Determination with ICP-MS*)
3.DEC.0224 2025-02	Determination of metals in plastic objects that come into contact with food using ICP-MS
3.DEC.0226 2025-02	Determination of metals in metallic objects and alloys that come into contact with food using ICP-MS
3.DEC.0242 2025-02	Determination of the total platinum content in silicone objects that come into contact with food using ICP-MS

3 Selected tests on consumer goods [Flex B]

ASU B 82.02-13 2011-12	Testing of consumer goods – Determination of the colorfastness of commodities – Testing with saliva and sweat simulant (Adoption of standard DIN 53160, July 2023)
ASU B 82.10-1 2025-01	Testing of consumer goods – Testing of colorful children's toys for saliva and perspiration resistance (adherence to the German standard DIN 53160, edition June 1974)

4 Chemical tests on toys [Flex A]

DIN EN 1541 2001-07	Paper and board intended to come into contact with foodstuffs - Determination of formaldehyde in an aqueous extract (EN 1541:2001) (Restriction: *Matrix here only toys*)
DIN EN 645 1994-01	Paper and board intended to come into contact with foodstuffs; Preparation of a cold water extract (EN 1541:2001) (Restriction: *Matrix here only toys*)
DIN EN 71-3 2025-02	Safety of toys - Part 3: Migration of certain elements (EN 71-3:2019+A2:2024)
DIN EN 71-10 2006-03	Safety of toys - Part 10: Organic chemical compounds - Sample preparation and extraction (EN 71-10:2005)
DIN EN 71-11 2006-01	Safety of toys - Part 11: Organic chemical compounds - Methods of analysis (EN 71-11:2005)
DIN EN 71-12 2017-03	Safety of toys - Part 12: N-Nitrosamines and N-nitrosatable substances (EN 71-12:2016)
DIN EN ISO 787-9 2019-06	General methods of test for pigments and extenders - Part 9: Determination of pH value of an aqueous suspension (ISO 787-9:1981) (Restriction: *Matrix here only toys*)

5 Molecular biological tests [Flex A]

IWA 32 2019-04	Screening of genetically modified organisms (GMOs) in cotton and textiles (Restriction: *Matrix here only commodities made of cotton*)
3.DEC.0281 2025-01	IWA 32 – GMO Screening of cotton and cotton products (Restriction: *Matrix here only commodities made of cotton*)
3.DEC.0285 2025-01	Quantitative detection of genetically modified organisms using real time PCR in raw cotton (Restriction: *Matrix here only commodities made of cotton*)

6 Microbiological testing in the food sector [Flex A]

DIN 10113-2 2023-02	Horizontal method for the determination of surface colony count and detection of specific microorganisms on fitment and utensils along the food chain - Part 2: Method with culture media laminated taking up equipment (squeeze method) (Restriction: *here only in the food sector*)
3.DEC.0309 2025-01	Use of bioindicators for testing sterilizers and disinfection equipment (Restriction: *here only in the food sector*)
3.DEC.0312 2025-01	Use of bioindicators to verify disinfecting washing procedures on site and subsequent evaluation in the laboratory (Restriction: *here only in the food sector*)
3.DEC.0314 2025-01	Methods for determining the airborne germ concentration (Restriction: *here only in the food sector*)
3.DEC.0325 2025-01	Use of phage bioindicators to verify disinfecting washing procedures on site and subsequent evaluation in the laboratory (Restriction: *here only in the food sector*)

7 Antimicrobial efficacy testing of textiles or consumer goods

7.1 Determination of the antibacterial efficacy of consumer goods using cultural microbiological testing [Flex B]

DIN EN ISO 20645 2005-02	Textile fabrics - Determination of antibacterial activity - Agar diffusion plate test (ISO 20645:2004)
DIN EN ISO 20743 2021-10	Textiles - Determination of antibacterial activity of textile products (ISO 20743:2021)
ISO 22196 2011-08	Measurement of antibacterial activity on plastics and other non-porous surfaces
AATCC TM 100 2019	Test Method for Antibacterial Finishes on Textile Materials: Assessment of
AATCC TM 147 2011(2016)	Test Method for Antibacterial Activity of Textile Materials: Parallel Streak
AATCC TM 174 2022	Test Method for Antimicrobial Activity of New Carpets

ASTM E 2149-20 2020	Standard Test Method for Determining the Antimicrobial Activity of Antimicrobial Agents under Dynamic Contact Conditions
ASTM E 2180-24 2024	Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agents in Polymeric or Hydrophobic Materials

7.2 Determination of the antiviral efficacy of consumer goods using microbiological tests [Flex C]

3.DEC.0323 2024-09	Quantitative microbiological testing of textiles for antiviral efficacy using phages
3.DEC.0326 2024-09	Quantitative microbiological testing of surfaces for antiviral efficacy using phages

7.3 Determination of the antifungal and yeasticidal efficacy of consumer goods against dermatophytes, molds and yeasts by means of microbiological investigations [Flex B]

DIN EN 14119 2003-12	Testing of Textiles - Evaluation of the action of microfungi (EN 14119:2003)
DIN EN ISO 846 2020-11	Plastics - Evaluation of the action of microorganisms (ISO 846:2019)

8 Biological testing

8.1 Determination of the biocompatibility of consumer goods that come into contact with the body and cosmetics on cell lines using biological tests [Flex C]

3.DEC.0273 2024-09	In vitro test for sensitizing potential “Modified Myeloid U937 Skin Sensitization Test (mMUSST)”
3.DEC.0278 2024-09	Cytotoxicity testing for textiles and commodities
3.DEC.0292 2024-09	Skin sensitization testing (U-SENS) of consumer goods that come into contact with the body

8.2 Determination of the biocompatibility of consumer goods that come into contact with the body and cosmetics at the chorioallantoic membrane using biological tests [Flex C]

DB-ALM-Protocol N° 96 2010-02	Hen’s Egg Test on the Chorioallantoic Membrane (HET-CAM)
3.DEC.0266 2025-02	Irritation test: The Hen's Egg Test on the Chorioallantoic Membrane (HET-CAM)

8.3 Determination of allergen reduction in consumer goods using microscopy [Flex C]

NF G39-011 2009-02	Properties of textiles - Textiles and polymeric materials having anti-dustmite properties - Characterisation and measurement of anti-dustmite activity
3.DEC.0267 2024-09	Characterization and measurement of the effectiveness of house dust mite protection according to NF G39-011

8.4 Determination of allergen reduction in consumer goods using immunoassay [Flex C]

NF G39-011 2009-02	Properties of textiles - Textiles and polymeric materials having anti-dustmite properties - Characterisation and measurement of anti-dustmite activity
NF G39-012 2006-04	Properties of textiles - Textiles and polymeric materials having anti-acarid properties - Measurement of the allergen DER P 1, marker of mite allergens
3.DEC.0270 2024-09	Testing for mite allergen tightness
3.DEC.0271 2024-09	Characterization and measurement of the effectiveness of house dust mite protection using the p1 ELISA

Abbreviations used:

AATCC	American Association of Textile Chemists and Colorists
AfPS	Ausschuss für Produktsicherheit - Product Safety Commission
ASTM	ASTM International, formerly known as the American Society for Testing and Materials
ASU	Official collection of test methods according to § 64 food, feeding stuff and commodity goods, law code available as technical rule BVL at the Beuth Verlag www.dinmedia.de
CPSC	Consumer Product Saftey Commission (USA)
DB-ALM	DataBase service on ALternative Methods by the European Union Reference Laboratory on Alternatives to Animal Testing
DIN	Deutsches Institut für Normung e.V. - German Institute for Standardisation
E DIN EN	Draft DIN EN
EN	European Standard
EUR xxx EN xxx	European Commission, Joint Research Centre, Institute for Health and Consumer Protection
HC	Health Canada – Product Safety Laboratory Book 5 – Laboratory Policies and Procedures
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
IWA	International Workshop Agreement
JIS	Japan Industrial Standard
NF	Norme Française – Frensh Standard
SNV	Schweizerische Norm-Vereinigung - Swiss Standards Association
3.DEC.XXXX	Standard Operation Procedure (SOP) of the conformity assessment body