

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that

Prüf- und Forschungsinstitut Pirmasens e.V.
Marie-Curie-Straße 19, 66953 Pirmasens

operates a testing laboratory that fulfills the requirements according to DIN EN ISO/IEC 17025:2018 for those conformity assessment activities specified in detail in the annexes listed below. This includes additional existing legal and normative requirements for the testing laboratory including those in relevant sectoral schemes, provided that these are explicitly confirmed in the annexes listed below.

D-PL-14150-01-01	Valid from: 09.12.2025
D-PL-14150-01-02	Valid from: 09.12.2025
D-PL-14150-01-03	Valid from: 09.12.2025

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.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notice of 09.12.2025. It consists of this cover sheet, the reverse side of the cover sheet and the corresponding annex

Registration number of the accreditation certificate: **D-PL-14150-01-00**

Berlin, 09.12.2025 Barbara Tyralla | Head of Technical Unit

Translation issued: 18.05.2026

This accreditation certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS). It is digitally sealed and valid without signature. It 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).

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

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkkS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-14150-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 09.12.2025

Date of issue: 13.01.2026

This annex is part of the Accreditation Certificate D-PL-14150-01-00.

Holder of the Accreditation Certificate:

**Prüf- und Forschungsinstitut Pirmasens e.V.
Marie-Curie-Straße 19, 66953 Pirmasens**

with the location

**Prüf- und Forschungsinstitut Pirmasens e.V.
Marie-Curie-Straße 19, 66953 Pirmasens**

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.

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Annex to the Accreditation Certificate D-PL-14150-01-01

Tests in the fields:

Mechanic-technological, physical, physical-chemical and chemical testing of commodities and composite materials from leather, textiles, plastics, metal and mechanic and physical testing of toys

Flexible scope of accreditation:

The testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS (flexibilization according to category A).

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.

1 Physical-chemical and chemical testing of commodities and raw materials from leather, textiles, plastics and metal

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
DIN EN ISO 11885 2009-09	Water quality – Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)
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
DIN EN ISO 14184-1 2011-12	Textiles – Determination of formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction method)
DIN EN ISO 14362-1 2017-05	Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
DIN EN ISO 14362-3 2017-05	Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene
DIN CEN ISO/TS 16179 2012-12	Footwear – Critical substances potentially present in footwear and footwear components – Determination of organotin compounds in footwear materials

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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
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
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
DIN EN ISO 17072-1 2019-07	Leather – Chemical determination of metal content – Part 1: Extractable metals
DIN EN ISO 17075-2 2017-05	Leather – Chemical determination of chromium(VI) content in leather – Part 2: Chromatographic method
DIN EN ISO 17226-1 2021-05	Leather – Chemical determination of formaldehyde content – Part 1: Method using high-performance liquid chromatography
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
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
DIN EN ISO 18218-1 2023-09	Leather – Determination of ethoxylated alkylphenols (APEO) – Part 1: Direct method
DIN EN ISO 18219-1 2021-09	Leather – Determination of chlorinated hydrocarbons in leather – Part 1: Chromatographic method for short-chain chlorinated paraffins (SCCPs)
DIN EN ISO 18219-2 2021-09	Leather – Determination of chlorinated hydrocarbons in leather – Part 2: Chromatographic method for middle-chain chlorinated paraffins (MCCPs)
DIN EN ISO 18254-1 2016-09	Textiles – Method for the detection and determination of alkylphenol ethoxylates (APEO) – Part 1: Method using HPLC-MS
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)

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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
DIN EN 1122 2002-02	Plastics – Determination of cadmium – Wet decomposition method
DIN EN 16711-1 2016-02	Textiles – Determination of metal content – Part 1: Determination of metals using microwave digestion
DIN EN 16711-2 2016-02	Textiles – Determination of metal content – Part 2: Determination of metals extracted by acidic artificial perspiration solution
DIN EN 17132 2019-09	Textiles and textile products – Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography
DIN EN 17137 2019-02	Textiles and textile products – Determination of the content of compounds based on chlorobenzenes and chlorotoluenes
DIN 54231 2005-11	Textiles – Determination of dyes after methanol extraction
DIN 13093 2017-09	Screening test for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin
ASTM E1613 2012	Determination of lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques
ASTM E1645 2001	Preparation of dried paint samples by hotplate or microwave digestion for subsequent lead analysis
CR 12471 2002-06	Quick test for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin
US 16 CFR Part 13 2011-02	Commercial Practices – Consumer Product Safety Commission – Test Method: CPSC-CH-E1003-09.1 – Standard Operating Procedure for Determining Lead (Pb) in Paint and other Surface Coatings

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The following test methods are outside the flexible scope of accreditation:

PFI 30/1003 2016-12	Determination of volatile organic compounds (VOC)
PFI 30/1027 2020-01	Determination of alkylphenols
PFI 30/1045 2016-12	Determination of formamide in plastics by GC-MS

2 Physical and mechanic-technological testing of commodities and raw materials from leather, plastics, metal and textiles

ISO 37 2017-11	Rubber, vulcanized or thermoplastic – Determination of tensile stress-strain properties
DIN ISO 34-1 2016-09	Rubber, vulcanized or thermoplastic - Determination of tear strength – Part 1: Trouser, angle and crescent test pieces
DIN ISO 48-4 2021-02	Rubber, vulcanized or thermoplastic – Determination of hardness – Part 4: Indentation hardness by durometer method (Shore hardness)
DIN ISO 4649 2021-06	Rubber, vulcanized or thermoplastic – Determination of abrasion resistance using a rotating cylindrical drum device
DIN EN ISO 105-B02 2014-11	Textiles – Tests for colour fastness – Part B02: Colour fastness to artificial light: Xenon arc fading lamp test
DIN EN ISO 105-B06 2020-12	Textiles – Tests for colour fastness – Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test
DIN EN ISO 105-C06 2010-08	Textiles – Tests for colour fastness – Part C06: Colour fastness to domestic and commercial laundering
DIN EN ISO 105-C10 2007-06	Textiles – Tests for colour fastness – Part C10: Colour fastness to washing with soap or soap and soda
DIN EN ISO 105-E01 2013-06	Textiles – Tests for colour fastness – Part E01: Colour fastness to water
DIN EN ISO 105-E02 2013-06	Textiles – Tests for colour fastness – Part E02: Colour fastness to sea water

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DIN EN ISO 105-E04 2013-08	Textiles – Tests for colour fastness – Part E04: Colour fastness to perspiration
DIN EN ISO 105-X05 1997-05	Textiles – Tests for colour fastness – Part X05: Colour fastness to organic solvents
DIN EN ISO 105-X12 2016-11	Textiles – Tests for colour fastness – Part X12: Colour fastness to rubbing
DIN EN ISO 868 2003-10	Plastics and ebonite – Determination of indentation hardness by means of a durometer (Shore hardness)
DIN EN ISO 1421 2017-03	Rubber- or plastics-coated fabrics – Determination of tensile strength and elongation at break
DIN EN ISO 2286-3 2017-01	Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 3: Method for determination of thickness
DIN EN ISO 2589 2016-07	Leather – Physical and mechanical tests – Determination of thickness
DIN EN ISO 3071 2020-05	Textiles – Determination of pH of aqueous extract
DIN EN ISO 3376 2020-08	Leather – Physical and mechanical tests – Determination of tensile strength and percentage elongation
DIN EN ISO 3377-1 2012-03	Leather – Physical and mechanical tests – Determination of tear load – Part 1: Single edge tear
DIN EN ISO 3377-2 2016-07	Leather – Physical and mechanical tests – Part 2: Determination of double edge tear load
DIN EN ISO 3379 2015-12	Leather – Determination of distension and strength of surface (ball burst method)
DIN EN ISO 4045 2018-09	Leather – Chemical tests – Determination of pH and difference figure
DIN EN ISO 4674-1 2017-03	Rubber- or plastics-coated fabrics – Determination of tear resistance – Part 1: Constant rate of tear methods
DIN EN ISO 5402-1 2022-07	Leather – Determination of flex resistance – Part 1: Flexometer method

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DIN EN ISO 5403 2003-10	Leather – Physical and mechanical tests – Determination of water resistance of flexible leather
DIN EN ISO 5403-1 2012-03	Leather – Determination of water resistance of flexible leather – Part 1: Repeated linear compression (penetrometer)
DIN EN ISO 5084 1996-10	Textiles – Determination of thickness of textiles and textile products
DIN EN ISO 6330 2022-03	Textiles – Domestic washing and drying procedures for textile testing
DIN EN ISO 9073-2 1997-02	Textiles – Test methods for nonwovens – Part 2: Determination of thickness
DIN EN ISO 11640 2018-11	Leather – Tests for colour fastness – Colour fastness to cycles of to-and-fro rubbing
DIN EN ISO 11641 2013-02	Leather – Tests for colour fastness – Colour fastness to perspiration
DIN EN ISO 11642 2013-02	Leather – Tests for colour fastness – Colour fastness to water
DIN EN ISO 11644 2023-02	Leather – Test for adhesion of finish
DIN EN ISO 15700 1999-10	Leather – Tests for colour fastness – Colour fastness to water spotting
DIN EN ISO 11646 2014-07	Leather – Measurement of area
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
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
DIN EN ISO 12947-3 2007-04	Textiles – Determination of abrasion resistance of fabrics by the Martindale method – Part 3: Determination of mass loss

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DIN EN ISO 12947-4 2007-04	Textiles – Determination of abrasion resistance of fabrics by the Martindale method – Part 4: Assessment of appearance change
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)
DIN EN ISO 14268 2023-05	Leather – Physical and mechanical tests – Determination of water vapour permeability
DIN EN ISO 17186 2012-03	Leather – Physical and mechanical tests – Determination of surface coating thickness
DIN EN ISO 17229 2016-06	Leather – Physical and mechanical tests – Determination of water vapour absorption
DIN EN ISO 17232 2017-05	Leather – Physical and mechanical tests – Determination of heat resistance of patent leather
DIN EN ISO 17693 2005-12	Footwear – Test methods for uppers – Resistance to damage on lasting
DIN EN ISO 17694 2016-10	Footwear – Test methods for uppers and lining – Flex resistance
DIN EN ISO 17696 2018-12	Footwear – Test methods for uppers, lining and insoles – Tear strength
DIN EN ISO 17698 2016-10	Footwear – Test methods for uppers – Delamination resistance
DIN EN ISO 17702 2018-12	Footwear – Test methods for uppers – Water resistance
DIN EN ISO 17706 2018-12	Footwear – Test methods for uppers – Tensile strength and elongation
DIN EN ISO 17707 2005-10	Footwear – Test methods for outsoles – Flex resistance
DIN EN ISO 17708 2018-10	Footwear – Test methods for whole shoe – Upper sole adhesion
DIN EN ISO 20877 2011-12	Footwear – Test methods for whole shoe – Thermal insulation

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DIN EN ISO 22649 2016-10	Footwear – Test methods for insoles and insocks – Water absorption and desorption
DIN EN ISO 22774 2005-03	Footwear – Test methods for accessories: shoe laces – Abrasion resistance
DIN EN ISO 22775 2005-03	Footwear – Test methods for accessories: Metallic accessories – Corrosion resistance
DIN EN ISO 23910 2019-10	Leather – Physical and mechanical tests – Measurement of stitch tear resistance
DIN EN ISO 32100 2019-02	Rubbe – or plastics-coated fabrics – Physical and mechanical tests – Determination of flex resistance by the flexometer method
DIN EN IEC 61340-4-3 2018-10	Electrostatics – Part 4-3: Standard test methods for specific applications – Footwear
DIN EN 522 1998-04	Adhesives for leather and footwear materials – Bond strength – Minimum requirements and adhesive classification
DIN EN ISO 846 2020-11	Plastics – Evaluation of the action of microorganisms
DIN EN 1391 1998-04	Adhesives for leather and footwear materials – Method for evaluating the bondability of materials – Minimum requirements and material classification
DIN EN 1392 2006-08	Adhesives for leather and footwear materials – Solvent-based and dispersion adhesives – Testing of bond strength under specified conditions
DIN EN 5404 2012-03	Leather - Physical test methods – Determination of water resistance of heavy leathers
DIN EN 12770 2000-03	Footwear – Test methods for outsoles – Abrasion resistance
DIN EN 12771 2000-03	Footwear – Test methods for outsoles – Tear strength
DIN EN 12772 2000-01	Footwear – Test methods for outsoles – Dimensional stability
DIN EN 12773 2000-01	Footwear – Test methods for outsoles – Needle tear strength

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DIN EN 12774 2000-04	Footwear – Test methods for outsoles – Determination of split tear strength and delamination resistance
DIN EN 12803 2000-07	Footwear – Test methods for outsoles – Tensile strength and elongation
DIN EN 13512 2002-04	Footwear – Test methods for uppers and lining – Flex resistance
DIN EN 13514 2002-04	Footwear – Test methods for uppers – Delamination resistance
DIN EN 13515 2002-03	Footwear – Test methods for uppers and lining – Water vapour permeability and absorption
DIN EN 13518 2005-11	Footwear – Test methods for uppers – Water resistance
DIN EN 13520 2005-03	Footwear – Test methods for uppers, lining and insoles – Abrasion resistance
DIN EN 13522 2002-04	Footwear – Test methods for uppers – Breaking strength and elongation
DIN EN 13571 2002-04 + Corrigenda 2006-10	Footwear – Test methods for uppers, lining and insoles – Tear strength
DIN EN 15307 2015-04	Adhesives for leather and footwear materials – Sole-upper bonds – Minimum strength requirements
DIN EN ISO 17700 2020-01	Footwear – Test methods for upper components and insoles – Colour fastness to rubbing and bleeding
DIN EN 61340-5-1 2017-07	Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena – General requirements
DIN 4843-100 1993-08	Safety, protective and occupational footwear; slip resistance, metatarsal protection, protective insert and thermal behaviour; safety requirements, testing
DIN 53325 1974-01	Testing of leather; ball compression test for determination of grain expansion capacity and the force of fracture with the lastometer

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DIN 53331 1980-05	Testing of leather; determination of the stitch tear resistance
DIN 53340 1979-07	Testing of leather; determination of the behaviour at permanent folding of semi-flexible leathers
DIN 53351 2003-09	Testing of artificial leather and similar shut materials – Behaviour at permanent folding (Flexometer-method)
DIN 53354 1981-02	Testing of artificial leather; tensile test
DIN 53356 1982-08	Testing of artificial leather and similar sheet materials; tear growth test
DIN 53359 2006-11	Testing of artificial leather and similar sheet materials – Flex cracking test
DIN 53479 1976-07	Testing of Plastics and Elastomers; Determination of Density
DIN 53504 2017-03	Testing of rubber – Determination of tensile strength at break, tensile stress at yield, elongation at break and stress values in a tensile test
DIN 53505 2000-08	Testing of rubber – Shore A and Shore D hardness test
DIN 53506 1990-12	Testing of rubber; determination of needle tear resistance
DIN 53507 1983-03	Testing rubber and elastomers; Determination of the tear strength of elastomers; Trouser test piece
DIN 53516 1987-06	Testing of rubber and elastomers; determination of abrasion resistance
DIN 53543 1979-02	Testing of Semi-Rigid Polyurethane (PUR) Integral Cellular Materials; Materials for Soles and Parts of Shoes
DIN 53859-4 1977-02	Testing of textiles; tear growth test on textile fabrics, nonwoven textiles
DIN 54301 1977-07	Testing of textiles; determination of the needle tearing out resistance of nonwoven textiles

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DIN TS 53263 Footwear – Test methods – Determination of upper-sole adhesion on the
2020-05 whole shoe

DIN SPEC 53250 Footwear – Test methods – Determination of non-marking of outsoles
2018-09

The following test methods are outside the flexible scope of accreditation:

PH2-AA-BSLÄNGE Measuring the length of the insole
2011-08

PH1-AA-Sohl.H Determination of the outsole tear-off strength based on DIN 4843
2016-06

PHL-AA-KICKIT Test methods for footballs
2024-09

3 Mechanical and physical testing of toys

DIN EN 71-1 Safety of toys – Part 1: Mechanical and physical properties
2018-12

Abbreviations used:

ASTM	American Society for Testing and Materials
CEN	European Committee for Standardization
CFR	Code of Federal Regulations
CR	Document by AFNOR (association française de normalisation)
DIN	German Institute for Standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PFI/PH1/PH2/PHL/SIC	In-house method of Prüf- und Forschungsinstitut Pirmasens e.V.
SPEC	Specification
TS	Technical Specification

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Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-14150-01-02 according to DIN EN ISO/IEC 17025:2018

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Holder of the Accreditation Certificate:

Prüf- und Forschungsinstitut Pirmasens e.V.
Marie-Curie-Straße 19, 66953 Pirmasens

with the location

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Marie-Curie-Straße 19, 66953 Pirmasens

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.

Personal protective equipment

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Abbreviations used: see last page

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Annex to the Accreditation Certificate D-PL-14150-01-02
Content

- 1 Protective clothing Fehler! Textmarke nicht definiert.
- 2 Foot and leg protectors Fehler! Textmarke nicht definiert.

Flexible scope of accreditation:

The testing laboratory is authorized – without the need for prior notification to or approval from the DAkkS – to apply the standardized test methods listened herein, or methods deemed equivalent thereto, across various revision levels (flexibility according to category A)

The testing laboratory maintains an up-to-date list of all test methods within its flexible scope of accreditation. This list is publicly available on the testing laboratory's website.

1 Protective clothing

Standards/ Technical Specification	Titel of the standard / Technical Specification	If applicable. Limitation/ Exceptions
DIN EN ISO 6942 2002-09	Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat, German version EN ISO 6942:2002	
DIN EN ISO 6942 2022-12	Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat (ISO 6942:2022); German version EN ISO 6942:2022	
DIN EN ISO 9151 2017-05	Protective clothing against heat and flame - Determination of heat transmission on exposure to flame (ISO 9151:2016, Corrected version 2017-04-01); German version EN ISO 9151:2016	
DIN EN ISO 12127-1 2016-05	Clothing to protect against heat and flame - Determination of contact heat transmission through clothing or constituent materials - Part 1: Contact heat produced by heating cylinder (ISO 12127-1:2015); German version EN ISO 12127-1:2015	
DIN EN ISO 21420 2020-06	Protective gloves - General requirements and test methods (ISO 21420:2020); German version EN ISO 21420:2020	
DIN EN 388 2019-03	Protective gloves against mechanical risks; German version EN 388:2016+A1:2018	

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Standards/ Technical Specification	Titel of the standard / Technical Specification	If applicable. Limitation/ Exceptions
DIN EN 407 2020-06	Protective gloves and other hand protective equipments against thermal risks (heat and/or fire); German version EN 407:2020	
DIN EN 420 2010-03	Protective gloves - General requirements and test methods; German version EN 420:2003+A1:2009	

2 Foot and leg protectors

Standards/ Technical Specification	Titel of the standard / Technical Specification	If applicable. Limitation/ Exceptions
DIN EN ISO 20344 2004-10	Personal protective equipment - Test methods for footwear (ISO 20344:2004); German version EN ISO 20344:2004	
DIN EN ISO 20344 2007-11	Personal protective equipment - Test methods for footwear (ISO 20344:2004+Amd.1:2007); German version EN ISO 20344:2004+AC:2005+A1:2007	
DIN EN ISO 20344 2013-02	Personal protective equipment - Test methods for footwear (ISO 20344:2011); German version EN ISO 20344:2011	
DIN EN ISO 20344 2022-04	Personal protective equipment - Test methods for footwear (ISO 20344:2021); German version EN ISO 20344:2021	
DIN EN ISO 20344 2024-06	Personal protective equipment - Test methods for footwear (ISO 20344:2021 + Amd 1:2024); German version EN ISO 20344:2021 + A1:2024	
DIN EN ISO 20345 2012-04	Personal protective equipment - Safety footwear (ISO 20345:2011); German version EN ISO 20345:2011	
DIN EN ISO 20345 2022-06	Personal protective equipment - Safety footwear (ISO 20345:2021); German version EN ISO 20345:2022	
DIN EN ISO 20345 2024-06	Personal protective equipment - Safety footwear (ISO 20345:2021 + Amd 1:2024); German version EN ISO 20345:2022 + A1:2024	
DIN EN ISO 20346 2014-09	Personal protective equipment - Protective footwear (ISO 20346:2014); German version EN ISO 20346:2014	
DIN EN ISO 20346 2022-06	Personal protective equipment - Protective footwear (ISO 20346:2021); German version EN ISO 20346:2022	
DIN EN ISO 20346 2024-06	Personal protective equipment - Protective footwear (ISO 20346:2021 + Amd 1:2024); German version EN ISO 20346:2022 + A1:2024	

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Standards/ Technical Specification	Titel of the standard / Technical Specification	If applicable. Limitation/ Exceptions
DIN EN ISO 20347 2012-05	Personal protective equipment - Occupational footwear (ISO 20347:2012); German version EN ISO 20347:2012	
DIN EN ISO 20347 2022-06	Personal protective equipment - Occupational footwear (ISO 20347:2021); German version EN ISO 20347:2022	
DIN EN ISO 20347 2024-06	Personal protective equipment - Occupational footwear (ISO 20347:2021 + Amd 1:2024); German version EN ISO 20347:2022 + A1:2024	
DIN EN ISO 13287 2020-02	Personal protective equipment - Footwear - Test method for slip resistance (ISO 13287:2019); German version EN ISO 13287:2019	
DIN EN ISO 17249 2014-05	Safety footwear with resistance to chain saw cutting (ISO 17249:2013); German version EN ISO 17249:2013 + AC:2014	
DIN EN ISO 20349 2011-03	Personal protective equipment - Footwear protecting against thermal risks and molten metal splashes as found in foundries and welding - Requirements and test method (ISO 20349:2010); German version EN ISO 20349:2010	
DIN EN ISO 20349-1 2021-04	Personal protective equipment - Footwear protecting against risks in foundries and welding - Part 1: Requirements and test methods for protection against risks in foundries (ISO 20349-1:2017 + Amd. 1:2020); German version EN ISO 20349-1:2017 + A1:2020	
DIN EN ISO 20349-2 2021-04	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 (ISO 20349-2:2017 + Amd. 1:2020); German version EN ISO 20349-2:2017 + A1:2020	
DIN EN ISO 22568-1 2021-03	Foot and leg protectors - Requirements and test methods for footwear components - Part 1: Metallic toecaps (ISO 22568-1:2019; Corrected version 2020-11); German version EN ISO 22568-1:2019	
DIN EN ISO 22568-2 2020-01	Foot and leg protectors - Requirements and test methods for footwear component - Part 2: Non-metallic toecaps (ISO 22568-2:2019); German version EN ISO 22568-2:2019	

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Standards/ Technical Specification	Titel of the standard / Technical Specification	If applicable. Limitation/ Exceptions
DIN EN ISO 22568-3 2020-01	Foot and leg protectors - Requirements and test methods for footwear components - Part 3: Metallic perforation resistant inserts (ISO 22568-3:2019); German version EN ISO 22568-3:2019	
DIN EN ISO 22568-4 2022-03	Foot and leg protectors - Requirements and test methods for footwear components - Part 4: Non-metallic perforation resistant inserts (ISO 22568-4:2021); German version EN ISO 22568-4:2021	
DIN EN 12568 2010-10	Foot and leg protectors - Requirements and test methods for toecaps and penetration resistant inserts; German version EN 12568:2010	
DIN EN 13634 2016-03	Protective footwear for motorcycle riders - Requirements and test methods; German version EN 13634:2015	
DIN EN 13634 2018-03	Protective footwear for motorcycle riders - Requirements and test methods; German version EN 13634:2017	
DIN EN 15090 2012-04	Footwear for firefighters; German version EN 15090:2012	
ISO 11999-6 2016-08	PPE for firefighters - Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures - Part 6: Footwear	
AS/NZS 2210.2:2009 2009-02	Occupational protective footwear, Part 2: Test methods (ISO 20344:2004, MOD)	
AS 2210.2:2019 2019	Personal protective equipment Test methods for footwear	
AS/NZS 2210.3:2009 2009-05	Occupational protective footwear, Part 3: Specification for safety footwear (ISO 20345:2004, MOD)	
AS 2210.3:2019 2019	Personal protective equipment, Part 3: Safety footwear (ISO 20345:2011, MOD)	
AS/NZS 2210.4:2009 2009-05	Occupational protective footwear, Part 4: Specification for protective footwear (ISO 20346:2004, MOD)	
AS/NZS 2210.5:2009 2009-05	Occupational protective footwear, Part 5: Specification for occupational footwear (ISO 20347:2004, MOD)	
AS 2210.5:2019 2019	Personal protective equipment, Part 5: Occupational footwear (ISO 20347:2012, MOD)	

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Standards/ Technical Specification	Titel of the standard / Technical Specification	If applicable. Limitation/ Exceptions
AS/NZS 4821:2014 2014-06	Protective footwear for firefighters - Requirements and test methods (EN 15090:2012, MOD)	
AS/NZS 4821 Rul 1: 2015	Protective footwear for firefighters - Requirements and test methods (EN 15090:2012, MOD) (Ruling 1 to AS/NZS 4821:2014)	
ASTM F2412-18a 2018-01	Test Methods for Foot Protection	
ASTM F2412-24 2024	Standard Test Methods for Foot Protection	
ASTM F2413-18 2018	Specification for Performance Requirements for Foot Protection	
ASTM F2413-24 2024-07	Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear	
ASTM F2413-24 2024	Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear	

Abbreviations used:

AS	Australian Standard
ASTM	American Society for Testing and Materials
DIN	Deutsches Institut für Normung e.V.
EN	Europäische Norm
IEC	International Electrotechnical Commission – Internationale Elektrotechnische Kommission
ISO	International Organization for Standardization – Internationale Organisation für Normung
NZS	New Zealand Standard

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Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-14150-01-03 according to DIN EN ISO/IEC 17025:2018

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This annex is part of the Accreditation Certificate D-PL-14150-01-00.

Holder of the Accreditation Certificate:

**Prüf- und Forschungsinstitut Pirmasens e.V.
Marie-Curie-Straße 19, 66953 Pirmasens**

with the location

**Prüf- und Forschungsinstitut Pirmasens e.V.
Marie-Curie-Straße 19, 66953 Pirmasens**

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 areas:

**Physical, physical-chemical and chemical testing of commodities;
Microbiological testing of commodities, surrounding samples, fitment and utensils in the area of food**

*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).*

Abbreviations used: see last page

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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.

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.

1 Physical, physical-chemical and chemical testing of commodities [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
DIN EN ISO 11885 2009-09	Water quality - Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES) (Modification: <i>here for leather, textiles: Determination out of the micro wave digestion solution</i>)
DIN EN ISO 11936 2022-06	Leather - Determination of total content of certain bisphenols
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
DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolysed formaldehyde (water extraction method) (Modification: <i>determination by plate photometer</i>)
E DIN EN ISO 14362-1 2017-05	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
E DIN EN ISO 14362-3 2017-05	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene

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DIN CEN ISO/TS 16179 2012-12	Footwear - Critical substances potentially present in footwear and footwear components - Determination of organotin compounds in footwear materials
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
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
DIN EN ISO 16189 2021-02	Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials
DIN EN ISO 17072-1 2019-07	Leather - Chemical determination of metal content - Part 1: Extractable metals
DIN EN ISO 17072-2 2021-10	Leather - Chemical determination of metal content - Part 2: Total metal content
DIN EN ISO 17075-2 2017-05	Leather - Chemical determination of chromium(VI) content in leather - Part 2: Chromatographic method
DIN EN ISO 17226-1 2021-05	Leather - Chemical determination of formaldehyde content – Part 1: Method using high-performance liquid chromatography
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
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
DIN EN ISO 18218-1 2015-11	Leather - Determination of ethoxylated alkylphenols (APEO) - Part 1: Direct method
DIN EN ISO 18219-1 2021-09	Leather - Determination of chlorinated hydrocarbons in leather - Part 1: Chromatographic method for short-chain chlorinated paraffins (SCCPs)
DIN EN ISO 18219-2 2021-09	Leather - Determination of chlorinated hydrocarbons in leather - Part 2: Chromatographic method for middle-chain chlorinated paraffins (MCCPs)

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DIN EN ISO 18254-1 2016-09	Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 1: Method using HPLC-MS
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))
DIN EN ISO 23702-1 2019-02	Leather - Per- and polyfluoroalkyl substances - Part 1: Determination of non-volatile compounds by extraction method using liquid chromatography /Tandem-Mass spectrometry detector (LC-MS/MS)
DIN EN 1122 2002-02	Plastics - Determination of cadmium - Wet decomposition method (Modification: <i>ICP-OES after micro wave digestion</i>)
DIN EN 16711-1 2016-02	Textiles - Determination of metal content - Part 1: Determination of metals using microwave digestion
DIN EN 16711-2 2016-02	Textiles - Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution
DIN EN 17132 2019-09	Textiles and textile products - Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography
DIN EN 17137 2019-02	Textiles and textile products - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes
DIN 54231 2022-09	Textiles - Determination of dyes after methanol extraction
DIN 54233-2 2014-07	Testing of textiles – Determination of metals - Part 2: Determination of metals extractable with hydrochloric acid
DIN 54233-4 2014-07	Testing of textiles - Determination of metals - Part 4: Determination of metals extractable with artificial saliva solution
DIN 13093 2017-09	Screening procedure for nickel release from products that are inserted into pierced body parts, and products that come into direct or prolonged contact with the skin
DIN 50009 2021-01	Textiles - Determination of the content of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomeres and pentachlorophenol

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ASU B 82.02-1 1985-06	Testing of commodities – Determination of formaldehyde release from textile commodities
ASU B 82.02-2 2021-04	Testing of commodities – Methods for the determination of certain aromatic amines derived from azo dyes in textiles - Part 1: Detection of the use of certain azo dyes involving extraction of the fibres
ASU B 82.02-3 2021-04	Testing of commodities - Determination of certain azo dyes in dyed leather
ASU B 82.02-9 2014-02	Testing of commodities - Determination of certain azo dyes in dyed leather - Part 2: Determination of 4-Aminoazobenzene
ASU B 82.02-10 2007-03	Testing of commodities – Detection of disperse dyes in textiles
ASU B 82.02-15 2017-12	Testing of commodities - Methods for the determination of certain aromatic amines derived from azo dyes in textiles - Part 3: Detection of the use of certain azo dyes capable of releasing 4-aminoazobenzene.
ASU B 82.02-17 2021-11	Testing of commodities - Determination of formaldehyde content in leather - Part 1: Method using high performance liquid chromatography
ASU B 82.02-19 2016-07	Testing of commodities - Determination of the content of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomeres and pentachlorophenol
ASU B 82.02-20 2016-07	Testing of commodities - Determination of metal content in textiles - Part 1: Determination of metals using micro wave digestion
ASU B 82.02-21 2016-07	Testing of commodities - Determination of metal content in textiles - Part 2: Determination of extractable metals using an acidic artificial perspiration solution
ASTM E 1613-04 2012	Determination of lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques
ASTM E 1645-01 2001	Preparation of dried paint samples by hotplate or microwave digestion for subsequent lead analysis

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CR 12471 Abschnitt 5.3.4 2002-06	Quick test für nickel release from alloys and coatings on products that come in direct or prolonged contact with the skin
US 16 CFR Part 13 2011-02	Standard Operating Procedure for Determining Lead(Pb) in Paint and other Surface Coatings (16 Commercial Practices Chapter II - Consumer Product Safety Commission - Part 1303, CPSC-CH-E1003-09.1 (2011-02-25)
PFI 30/1003 2016-12	Determination of volatile organic compounds (VOC) in leather, textiles and plastics using HS-GC-MS
PFI 30/1027 2020-01	Determination of alkyl phenol in leather, textiles and plastics using GC-MS or LC-MS
PFI 30/1045 2016-12	Determination of formamide in plastics using GC-MS

2 Microbiological testing of commodities, surrounding samples, fitment and utensils in the area of food [Flex A]

ISO 22196 2011-08	Measurement of antibacterial activity on plastics and other non-porous surfaces
DIN EN ISO 846 2020-11	Plastics - Evaluation of the action of microorganisms (Limitation: <i>except procedure D: soil-burial-test</i>)
DIN EN ISO 16187 2013-12	Footwear and footwear components - Test method to assess antibacterial activity
DIN EN ISO 18593 2018-10	Microbiology of the food chain - Horizontal methods for surface sampling on surfaces using contact plates and swabs
DIN EN ISO 19574 2020-05	Footwear and footwear components - Qualitative test method to assess antifungal activity (growth test)
DIN EN ISO 20150 2019-05	Footwear and footwear components - Quantitative challenge test method to assess antifungal activity

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DIN EN ISO 20645 2005-02	Textile fabrics - Determination of antibacterial activity - Agar diffusion plate test (Modification: <i>Testing of antimycotic activity Agar diffusion plate test - germ spectrum: micro-fungi, Aspergillus brasiliensis, Trichophyton mentagrophytes, Candida albicans – Adaption of culture conditions for micro-fungi</i> ; Extension: <i>also other furniture and commodities</i>)
DIN 10113-1 2023-02	Horizontal methods for determination of surface germ counts and proof of special micro-organisms on furniture and commodities along the food chain – Part 1: swab method (Extension: <i>here also commodities</i>)
DIN 10113-2 2023-02	Horizontal methods for determination of surface germ counts and proof of special micro-organisms on furniture and commodities along the food chain – Part 2: contact plate method (Extension: <i>here also commodities</i>)
DIN 10113-3 1997-07	Determination of surface germ counts on furniture and commodities in the food stuff area – Part 3: Semiquantitative method with contact plates (Extension: <i>here also commodities</i>)
ASU B 80.00-1 2023-08	Analysis of commodities - Horizontal methods for determination of surface germ counts and proof of special micro-organisms on furniture and commodities along the food chain – Part 1: swab method
ASU B 80.00-2 2023-08	Analysis of commodities - Horizontal methods for determination of surface germ counts and proof of special micro-organisms on furniture and commodities along the food chain – Part 2: contact plate method
ASU B 80.00-3 2023-08	Analysis of commodities - Determination of surface germ counts on furniture and commodities along the food chain – Part 3: Semiquantitative method with contact plates
ASU B 80.00-5 2019-02	Analysis of commodities - Methods for sampling techniques for microbio-logical analysis on surfaces with food contact using contact plates or swabs
AATCC 100 2019-09	Test method for antibacterial finishes on textile material

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ASTM E 2149-20 2020-10	Standard test method for determining the antimicrobial activity of antimicrobial agents under dynamic contact conditions (Modification: <i>Extension on testing organisms like Staphylococcus aureus ATCC 6538, Klebsiella pneumoniae ATCC 4352, E. coli ATCC 8739 or ATCC 11229, Pseudomonas aeruginosa ATCC 9027 or ATCC 15442 and Extension on micro-fungi, Aspergillus ATCC 16404, Candida albicans ATCC 10231, Trichophyton mentagrophytes ATCC 9533; additional time points (4, 24, 48 h); samples rondels, diameter 25 mm</i>)
ASTM E 2180-24 2024-04	Standard test method for determining the activity of incorporated antimicrobial agent(s) in polymeric or hydrophobic materials
JIS L 1902 2015-07	Textiles - Determination of antibacterial activity and efficacy of textile products (Modification: <i>germ spectrum: Klebsiella pneumoniae ATCC 4352 and Staphylococcus aureus ATCC 6538 (if required other germs) - additional/ optionale time points (0 h/4 h)</i>)
PFI 10/1000 2016-12	Examination on mould resistance on leather and leather intermediates (wet blue, wet white, etc.) in a growth test against <i>Aspergillus niger</i> , <i>Penicillium pinophilum</i> (formerly <i>Pen. funiculosum</i>), <i>Trichoderma viride</i> and <i>Homoconis resinae</i>
PFI 10/1001 2017-03	Examination on moulds – Testing of transport and storage stability of commodities and materials - Storage at increased temperature and increased humidity
PFI 10/1002 2016-12	Examination on moulds on commodities – Macroscopic and microscopic examination, determination of surface germs
PFI 10/2000 2016-12	Determination of the antimicrobial activity of active substances using Agar diffusion plate test

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
ISO	Internationale Norm – International Organization for Standardisation
EN	Europäische Norm – European Standard
AATCC	American Association of Textile Chemists and Colorists
ASTM	American Society for Testing and Materials
ASU	Amtliche Sammlung von Untersuchungsmethoden nach § 64 LFGB German Official collection of testing methods according to § 64 LFGB
AS NZS	Standards Australia/ New Zealand Standards
Cr	Code of Federal Registrations
CR	Document by AFNOR (association française de normalisation)
JIS	Japan Industrial Standard
LFGB	Lebensmittel- und Futtermittelgesetzbuch - German Food and Feed Code
PFI	In-house method of the Prüf- und Forschungsinstitut Pirmasens e.V. (PFI)