

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11185-01-00 according to ISO/IEC 17025:2017

Period of validity: 25.02.2020 to 30.05.2022 Date of issue: 25.02.2020

Holder of certificate:

SGS-CSTC Technical Services (Shanghai) Co. Ltd.
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SHANGHAI 200233, P. R. China

Tests in the fields:

chemical and physical-chemical testing of textiles, leather and leather goods, toys, rubber, plastics, food containers, fashion jewellery, automotive parts, electrical and electronic equipment, wood as well as articles coming into contact with skin;

determination of the emission of volatile organic compounds (VOCs) and formaldehyde from textiles, leather products, toys, wood, electrical and electronic equipment and automotive parts; selected chemical and physical-chemical testing of food

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

- * the free choice of standard or equivalent test methods.**
- ** the modification, development and refinement of test methods.**

The listed test methods are exemplary.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all test methods in a flexible scope of accreditation.

1 Chemical and physical-chemical testing of commodities and specific consumer products (textiles, leather and leather goods, plastics/polymers, metal, paper, coating, oil based material, liquid, toys, rubber, silica, food contact material, fashion jewellery, automotive parts, electrical and electronic equipment, articles coming into contact with skin as well as cosmetics)

1.1 Sample preparation *

DIN EN 12472 2009-09	Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items
EN 12472+A1 2009-07	Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items
EN 15205 2006-11	Determination of hexavalent chromium in corrosion protection layers - Qualitative analysis
EPA 3550C 2007-02	Ultrasonic Extraction (<i>only for phthalate analysis</i>)
EPA 3630 C 1996-12	Silica Gel Cleanup (only for pesticides)
EPA 3050B 1996-12	Acid Digestion of Sediments, Sludges and Soils
EPA 3052 1996-12	Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
ASTM E1645 2016-06	Standard Practice for the Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis
BS EN 12472+A1 2010-03	Method for the simulation of wear and corrosion for the detection of nickel release from coated items
BS PD CR 12471 2002-09	Screening test for nickel release from alloys and coating in items that come into direct and prolonged contact with the skin

1.2 Determination of Organic Hazardous Substances using Gas Chromatography with mass selective detectors (GC-MS) **

ISO 14362-1 2017-02	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
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ISO 14362-3 2017	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
ISO 17070 2015-02	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content
ISO 17234-1 2015-07	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 1: Determination of certain aromatic amines derived from azo colorants
ISO 17234-2 2011-03	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene
ISO 17353 2004-09	Water quality - Determination of selected organotin compounds - Gas chromatographic method (Modifications: 1. Only applied for textiles, leather, plastics and ink 2. extraction by ultrasonic method with acetone solution)
ISO 18287 2006-01	Soil quality - Determination of polycyclic aromatic hydrocarbons (PAH) - Gas chromatographic method with mass spectrometric detection (GC-MS) (Modifications: only applied for textiles, leather, plastics and rubber)
ISO/TS 16179 2012-08	Footwear - Critical substances potentially present in footwear and footwear components - Determination of organotin compounds in footwear materials
EN ISO 17353 2005-11	Water quality - Determination of selected organotin compounds - Gas chromatographic method (Modifications: 1. <i>Only applied for textiles, leather, plastics and ink</i> 2. <i>extraction by ultrasonic method with acetone solution</i>)
DIN EN ISO 17070 2015-05	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content
DIN EN ISO 14362-3 2017	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 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 71-3E 2019-08	Safety of toys - Part 3: Migration of certain elements (Only testing for Organotin)
DIN EN 14372 2007-05	Child use and care articles - Cutlery and feeding utensils - Safety requirements and tests (Section 6.3.2 Determination of phthalate content)
DIN EN 14362-1 2012-04	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
DIN EN 14362-3 2012	Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (<i>withdrawn standard</i>)
EN 71-3 2019-04	Safety of toys - Part 3: Migration of certain elements (Only testing for Organotin)
EN 14362-3 2012-09	Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (<i>withdrawn standard</i>)
EN 14362-1 2012-02	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
EN 14372 2004-08	Child use and care articles - Cutlery and feeding utensils - Safety requirements and tests (Section 6.3.2 Determination of phthalate content)
BS EN ISO 17353 2006-03	Water quality. Determination of selected organotin compounds. Gas chromatographic method (Modifications: 1. Only applied for textiles, leather, plastics and ink 2. extraction by ultrasonic method with acetone solution)

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BS ISO 17353 2004-09	Water quality. Determination of selected organotin compounds. Gas chromatographic method (Modifications: <i>1. Only applied for textiles, leather, plastics and ink 2. extraction by ultrasonic method with acetone solution</i>)
BS EN 14372 2004-11	Child use and care articles - Cutlery and feeding utensils - Safety requirements and tests (Section 6.3.2 Determination of phthalate content)
BS EN 71-3 2019-04	Safety of toys. Part 3: Migration of certain elements (<i>Only testing for Organotin</i>)
BS EN ISO 17070 2015-03	Leather. Chemical tests. Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content
IEC 62321-6 Edition 1.0 2015-06	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS)
IEC 62321-8 Edition 1.0 2017-03	Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py-TD-GC-MS)
EPA 8081B 2007-02	Organochlorine Pesticides by Gas Chromatography (<i>only for pesticides-analysis</i>)
EPA 8141B 2007-02	Organophosphorus Compounds by Gas Chromatography (<i>only for pesticides</i>)
EPA 8082A 2007-02	Polychlorinated Biphenyls (PCBs) by Gas Chromatography (<i>apply for PCBs analysis</i>)
EPA 8270E 2018-06	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (<i>only for pesticides, phthalate analysis</i>)
AfPS GS 2014:01 PAK 2014-08	Testing and Evaluation of Polycyclic Aromatic Hydrocarbons for the Granting of GS Mark
SHTC-CHEM-SOP-428-T 2019-07	Determination of 11 Phthalates (DBP, DmEP, DIPP, iPnPP, DnPP, DnHP, BBP, DEHP, DNOP, DIDP and DINP) in Cosmetics by GC-MS

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SHTC-CHEM-SOP-132-T 2019-03	Determination of Tris-(aziridinyl)phosphine oxide (TEPA) by GC-MS in textile and plastics
SHTC-CHEM-SOP-149-T 2019-05	Determination of Extractable Dimethyl Formamide (DMF) Content in Textiles /PU and Plastics by GCMS
SHTC-CHEM-SOP-206-T 2019-06	Determination of the content of extractable of ortho-Phenylphenol (OPP), Chlorophenol and its salts and esters in textiles GC-MSD or GC-ECD analysis
SHTC-CHEM-SOP-230-T 2019-09	Determination of Triclosan in Textile/Plastics Material of Consumer Product by GC/MS Method
CPSC-CH-C1001-09.4 2018-01	Standard Operating Procedure for Determination of Phthalates
VDA 278 2011-10	Thermal desorption analysis of organic emissions for the characterization of non-metallic materials for automobiles
ASU B 82.02-2 2013-01	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
ASU B 82.02-3(V) 2014-02	Analysis of consumer products - Method for the determination of selected azodyes in dyed leather(withdrawn standard)
ASU B 82.02-9 2014-02	Analysis of consumer products - Method for the determination of selected azodyes in dyed leather - Part 2: Determination of 4-Aminoazobenzol
ASU B 82.02-15 2013-01	Analysis of consumer products - Method for the determination of selected aromatic amines in azodyes in textiles - Part 3: detection of the use of selected azodyes, which release 4-Aminoazobenzol <i>(withdrawn standard)</i>

1.3 Determination of Organic Hazardous Substances in textiles and leather using Gas Chromatography-Electron Capture Detector (GC-ECD) **

ISO 17070 2015-02	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content
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DIN EN ISO 17070 2015-05	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content
EPA 8082A 2007-02	Polychlorinated Biphenyls (PCBs) by Gas Chromatography <i>(apply for PCBs analysis)</i>
BS EN ISO 17070 2015-03	Leather. Chemical tests. Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content
BS DD CEN/TS 14494 2003-04	Leather - Chemical tests - Determination of the content of pentachlorophenol in leather <i>(withdrawn standard)</i>
ASU B 82.02-8 2001-06	Testing of commodity articles detection and quantification of Pentachlorophenol in commodity goods, particularly in leather and textiles (Reference Method)
DD CEN/TS 14494 2003-04	Leather - Chemical tests - Determination of the content of pentachlorophenol in leather <i>(withdrawn standard)</i>
SHTC-CHEM-SOP-206-T 2019-06	Determination of the content of extractable orthophenylphenol (OPP), chlorophenol and its salts and esters in textile by GC-MSD and GC-ECD

1.4 Determination of Organic Hazardous Substances using Head Space Gas Chromatography with mass selective detectors (HS-GC-MS) **

SHTC-CHEM-SOP-172-T 2019-08	Determination of 29 kinds of Volatile Organic Compounds (VOCs) in Plastics, Textiles and Liquid by headspace GC-MSD
SHTC-CHEM-SOP-124-T 2018-03	Determination of Solvent (migration) and Monomers migration (Styrene) in Toy Materials and Ink Part 1 - Head Space GC-MS analysis

1.5 Determination of Organic Hazardous Substances using Head Space Gas Chromatography with Flame Ionization Detector (HS-GC-FID)

VDA 277 1995-01	Determination of organic emission of non-metallic materials from vehicles interior
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1.6 Determination of Organic Hazardous Substances using High Performance Liquid Chromatography with mass selective Detector (HPLC-MS) **

ISO 14362-3 2017	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
ISO 17234-1 2015-07	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 1: Determination of certain aromatic amines derived from azo colorants
ISO 17234-2 2011-03	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene
DIN EN ISO 14362-3 2017	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 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 14362-3 2012	Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (<i>withdrawn standard</i>)
DIN EN 14362-1 2012-04	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 54231 2005-11	Textiles - Detection of disperse dyestuffs (<i>apply for Carcinogenic dyestuffs, Allergenic disperse dyestuffs and Navy Blue colourants</i>)
ASU B 82.02-2 2013-01	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres

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EN 14362-1 2012-02	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
EN 14362-3 2012-09	Textiles - Methods for the determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (<i>withdrawn standard</i>)
ASU B 82.02-3(V) 2014-02	Analysis of consumer products - Method for the determination of selected azodyes in dyed leather (<i>withdrawn standard</i>)
ASU B 82.02-9 2014-02	Analysis of consumer products - Method for the determination of selected azodyes in dyed leather - Part 2: Determination of 4-Aminoazobenzol
ASU B 82.02-15 2013-01	Analysis of consumer products - Method for the determination of selected aromatic amines in azodyes in textiles - Part 3: detection of the use of selected azodyes, which release 4-Aminoazobenzol (<i>withdrawn standard</i>)
SHTC-CHEM-SOP-92-T 2018-09	Determination of NP, OP and NPEOs, OPEOs content in Textile, Plastic and Liquid materials by HPLC-MS
SHTC-CHEM-SOP-102-T 2018-11	Determination of Bis(2,3-dibromopropyl) Phosphate (BDBPP) , Tris(2,3-dibromopropyl) Phosphate (TRIS) , Tris-(azirdinyl)-phosphine oxide and 2,2-bis(bromomethyl)-1,3-propanediol content in textile by HPLC-MS

1.7 Determination of Organic Hazardous Substances using High Performance Liquid Chromatography-Diode Array Detector/Fluorescence Detector (HPLC-DAD/FLD) **

ISO 17226-1 2018-12	Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography
SHTC-CHEM-SOP-220-T 2018-06	Determination Biocide in Textile Materials by HPLC-DAD Method

1.8 Determination of Heavy Metal using Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) *

DIN EN 71-3E 2019-08	Safety of toys - Part 3: Migration of certain elements
DIN EN 1811 2015-10	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin
EN 71-3 2019-04	Safety of toys - Part 3: Migration of certain elements
EN 1811+A1 2015-07	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
IEC 62321-4/AMD1 2017-07	Amendment 1 - Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS (Modification: <i>here only ICP-OES</i>)
IEC 62321-5 Edition 1.0 2013-06	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS (Modification: <i>here only ICP-OES</i>)
EPA 6010D 2018-07	Inductively Coupled Plasma-Optical Emission Spectrometry
BS EN 71-3 2019-04	Safety of toys. Part 3: Migration of certain elements
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)
ASTM F963 2017-05	Standard Consumer Safety Specification for Toy Safety
BS EN 1811+A1 2015-08	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

1.9 Determination of Heavy Metal using Atomic Absorption Spectrophotometer (AAS) *

DIN EN 1122 Method B 2002-02	Plastics - Determination of cadmium - Wet decomposition method
DIN EN 1388-2 1995-11	Materials and articles in contact with foodstuffs - silicate surfaces - Determination of the release of lead and cadmium from silicate surfaces other than ceramic
EN 1122 Method B 2001-03	Plastics - Determination of cadmium - Wet decomposition method
EN 1388-2 1995-10	Materials and articles in contact with foodstuffs - silicate surfaces - Determination of the release of lead and cadmium from silicate surfaces other than ceramic
BS EN 1122 2001-05	Plastics - Determination of cadmium - Wet decomposition method
BS EN 1388-2 1996-07	Materials and articles in contact with foodstuffs. Silicate surfaces. Determination of the release of lead and cadmium from silicate surfaces other than ceramic
BS 6748+A1 2011-10	Specification for limits of metal release from ceramic ware, glassware, glass ceramic ware and vitreous enamel ware
IEC 62321-5 Edition 1.0 2013-06	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS <i>(here only by using AAS)</i>
CPSC-CH-E1003-09.1 2011-02	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CPSC-CH-E1002-08.3 2012-11	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products
Standard Operating Procedure for Determining Lead (Pb) and Its Availability in Children's Metal Jewellery 2005-03	Screening test for total Pb analysis

1.10 Determination of Heavy Metal using Inductively-couple Plasma Mass Spectrometry (ICP-MS)

DIN EN 71-3E 2019-08	Safety of toys - Part 3: Migration of certain elements
EN 71-3 2019-04	Safety of toys - Part 3: Migration of certain elements
BS EN 71-3 2019-04	Safety of toys. Migration of certain elements

1.11 Determination of Heavy Metal using Liquid Chromatograph - Inductively-couple Plasma Mass Spectrometry (LC-ICP-MS)

DIN EN 71-3E 2019-08	Safety of toys - Part 3: Migration of certain elements (Only testing for chromium(VI))
EN 71-3 2019-04	Safety of toys - Part 3: Migration of certain elements (Only testing for chromium(VI))
BS EN 71-3 2019-04	Safety of toys. Part 3: Migration of certain elements (Only testing for chromium(VI))

1.12 Determination of Halogens using Ion-Chromatography (IC) *

ISO 17075-2 2017-02	Leather - Chemical determination of chromium(VI) content in leather - Part 2: Chromatographic method
DIN EN 71-3E 2019-08	Safety of toys - Part 3: Migration of certain elements
EN 71-3 2019-04	Safety of toys - Part 3: Migration of certain elements
EN 14582 2016-08	Characterization of waste - Halogen and sulfur content - Oxygen combustion in closed systems and determination methods
BS EN 14582 2016-08	Characterization of waste. Halogen and sulfur content. Oxygen combustion in closed systems and determination methods
BS EN 71-3 2019-04	Safety of toys. Part 3: Migration of certain elements

1.13 Determination of Heavy Metal using UV-VIS Spectrophotometer (UV-VIS) *

ISO 14184-1 2011-08	Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)
ISO 14184-2 2011-08	Textiles - Determination of formaldehyde - Part 2: Released formaldehyde (vapour absorption method)
ISO 3613 2010-12	Metallic and other inorganic coatings - Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys - Test methods
ISO 17075-1 2017-02	Leather - Chemical determination of chromium(VI) content in leather - Part 1: Colorimetric method
ISO 17226-2 2018-12	Leather - Chemical determination of formaldehyde content - Part 2: Method using colorimetric analysis
EN ISO 3613 2011-03	Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys - Test methods
DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)
DIN EN ISO 14184-2 2011-12	Textiles - Determination of formaldehyde - Part 2: Released formaldehyde (vapour absorption method)
BS EN ISO 3613 2011-01	Metallic and other inorganic coatings. Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys. Test methods
EN 120 1991-07	Determination of formaldehyde content: extraction method (known as perforator method) <i>(withdrawn standard)</i>
IEC 62321-7-1 Edition 1.0 2015-09	Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method
IEC 62321-7-2 Edition 1.0 2017-03	Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method

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CEN/TS 14495 2003-03	Leather. Chemical tests. Determination of chromium(VI) content <i>(withdrawn standard)</i>
BS DD CEN/TS 14495 2003-04	Leather. Chemical tests. Determination of chromium(VI) content <i>(withdrawn standard)</i>
BS EN 1541 2001-06	Paper and board intended to come into contact with foodstuffs - Determination of formaldehyde in an aqueous extract
JIS L1041 2011-07	Japan Industrial Standards - Test methods for resin finished textiles <i>(only applied for formaldehyde)</i>
BS EN 717-3 1996-09	Wood-based panels - Determination of formaldehyde release - Part 3: Formaldehyde release by the flask method
BS EN 645 1994-02	Paper and board intended to come into contact with foodstuffs - Preparation of a cold water extract
BS EN 120 1992-10	Determination of formaldehyde content: extraction method (known as perforator method) <i>(withdrawn standard)</i>
AATCC 112 2014-01	Textiles - Determination of formaldehyde - Part 2: Released formaldehyde (vapour absorption method)
VDA 275 1994-07	Determination of formaldehyde from vehicle interior with modified flask method

1.14 Determination of Organic Hazardous Substances using Fourier Transform Infrared Spectrophotometer (FT-IR)

SHTC-CHEM-SOP-115-T 2018-03	Polyvinyl Chloride (PVC) Detection in Plastic Material and Coating Material by FT-IR
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1.15 Determination of certain substances using X-ray fluorescence spectrometry

IEC 62321-3-1 2013-06	Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry
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1.16 Determination of overall migration using gravimetric analysis (balance) *

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
EN 1186-3 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration into aqueous food simulants by total immersion
EN 1186-5 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 5: Test methods for overall migration into aqueous food simulants by cell
EN 1186-9 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 9: Test methods for overall migration into aqueous food simulants by article filling
EN 1186-14 2002-12	Materials and articles in contact with foodstuffs - Plastics - Part 14: Test methods for 'substitute tests' for overall migration from plastics intended to come into contact with fatty foodstuffs using test media isooctane and 95% ethanol
Commission Regulation (EU) No 10/2011 2011-01	Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food (chapter II section 2 article 12)

1.17 Physical-chemical testing

ISO 3071 2005-06	Textiles - Determination of pH of aqueous extract
ISO 4045 2018-05	Leather - Chemical tests - Determination of pH
DIN EN ISO 3071 2006-05	Textiles - Determination of pH of aqueous extract
EN 322 1993-02	Wood-based panels-determination of moisture content
AATCC TM 81 2016	pH of the Water-Extract from Wet Processed Textiles

1.18 Screening of solvents, cleaners, adhesives, paints, Inks, dyes, pigments, auxiliaries and pre-treatment agents using Gas Chromatography with mass selective detectors (GC-MS)/High Performance Liquid Chromatography with mass selective Detector (HPLC-MS)/High Performance Liquid Chromatograph - Diode Array Detector (HPLC-DAD) / Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

SHTC-CHEM-SOP-1307-T 2019-09	Chemical Screening test method for MRSL substances in various chemical formulations with ICP-OES (Applied for solvents, cleaners, adhesives, paints, Inks, dyes, pigments, auxiliaries and pre-treatment agents)
SHTC-CHEM-SOP-1308-T 2019-09	Chemical Screening test method for MRSL substances in various chemical formulations with GC-MS, HPLC-DAD/MS (Applied for solvents, cleaners, adhesives, paints, Inks, dyes, pigments, auxiliaries and pre-treatment agents)

2 Chemical and physical-chemical testing of Food

2.1 Determination of vitamins using High Performance Liquid Chromatograph - Diode Array Detector (HPLC-DAD) *

EN 12821 2009-04	Foodstuffs - Determination of vitamin D by high performance liquid chromatography - Measurement of cholecalciferol (D3) or ergocalciferol (D2)
EN 12823-1 2014-05	Foodstuffs - Determination of vitamin A by high performance liquid chromatography - Part 1: Measurement of all-E-retinol and 13-Z-retinol
EN 12822 2014-06	Foodstuffs - Determination of vitamin E by high performance liquid chromatography - Measurement of α -, β -, γ - and δ -tocopherol
BS EN 12821 2009-04	Foodstuffs. Determination of vitamin D by high performance liquid chromatography. Measurement of cholecalciferol (D3) or ergocalciferol (D2)

2.2 Determination of pesticide residues using Gas Chromatography with mass selective detectors (GC-MS) and/or Liquid Chromatography-Tandem Mass Spectrometer Detector (LC-MS/MS)

BS EN 15662 2018-05	Foods of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE - QuEChERS-method <i>(Only test for foodstuffs with high acid content , foodstuff with high starch content , foodstuffs with High oil content and spices)</i>
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Abbreviations used:

AfPS	Ausschuss fuer Produktsicherheit
AS	Australian Standard
ASTM	American Society for Testing and Materials
ASU	Amtliche Sammlung von Untersuchungsverfahren nach § 64 LFGB
BS	British Standard
CEN/TS	Standard of European committee for standardization
CN-SOP-TXCF -xxx-T	Softline laboratory in-house test method of SGS Shanghai
CPSC	U.S. Consumer Product Safety Commission
DIN	Deutsches Institut für Normung e.V. (German Institute for Standardisation)
EC (EEC)	Official Journal of the European Communities
EN	European Standard
EPA	U.S. Environmental Protection Agency
GB	Chinese Standard
GB-T	Chinese Standard
ISO	International Organisation for Standardisation
JIS	Japanese Industrial Standards
LFGB	German Food and Feed Code
SHTC-CHEM-SOP-xxx-T	Chemical laboratory in-house test method of SGS Shanghai
VDA	Verein Deutscher Automobilhersteller