

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-21471-01-00 according to ISO/IEC 17025:2017

Period of validity: 09.03.2020 to 08.03.2025 Date of issue: 09.03.2020

Holder of certificate:

QAT Services Limited
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Tests in the fields:

physical, chemical and physical-chemical testing of commodity goods including toys and children's products, furniture, household products (cookware), electrical and electronic products, packaging materials, plastics, surface coatings, metals, textiles, leather, fashion jewelry, materials and articles that are intended to come into contact with food

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 testing methods within the flexible scope of accreditation.

1 Chemical and physical-chemical testing of commodity goods including toys and children's products, furniture, household products (cookware), electrical and electronic products, packaging materials and textiles

1.1 Sample preparation

IEC 62321-2
2013-06 Determination of certain substances in electrotechnical products.
Disassembly, disjointment and mechanical sample preparation

1.2 Organic hazardous substances in plastics/polymers, coatings, textiles, leather and rubber using gas chromatography mass spectrometry (GC-MS; GC-MS/MS)

ISO 18219
2015-09 Leather - Determination of chlorinated hydrocarbons in leather -
Chromatographic method for short-chain chlorinated paraffins (SCCP)
*(Modification: Adjusted extraction. Selected nine mass ions for quantitative
analysis. Matrix also for plastic.)*

ISO/TS 16179
2012-08 Footwear - Critical substances potentially present in footwear and
footwear components - Determination of organotin compounds in
footwear materials
(Modification: Matrix also for plastic)

DIN EN 14362-1
2012-04 Textiles - Methods for determination of certain aromatic amines derived
from azo colorants. Detection of the use of certain azo colorants
accessible with and without extracting the fibres

DIN EN 14362-3
2012-09 Textiles - Methods for determination of certain aromatic amines derived
from azo colorants. Detection of the use of certain azo colorants, which
may release 4-aminoazobenzene

CPSC-CH-C1001-09.04
2018-01 Standard operation procedure for determination of phthalates
(Modification: analysis with GC-MS/MS)

IEC 62321-6
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
2017-03 Determination of certain substances in electrotechnical products -
Part 8: Phthalates in polymers by gas chromatography-mass spectrometry
(GC-MS) *(Modification: analysis with GC-MS/MS only)*

AfPs GS 2014:01 PAK 2015-07 Product Safety Commission (AfPS) GS Specification: Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of awarding the GS mark- Specification pursuant to article 21(1) no. 3 of the Product Safety Act (ProdSG)
(Modification: analysis with GC-MS/MS)

1.3 Organic hazardous substances in textiles using high performance liquid chromatography mass spectrometry (HPLC-MS)

DIN EN 18254-1 2016-09 Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 1: Method using HPLC-MS

1.4 Heavy metals in metal, textiles, coating and plastics/polymers using induced-coupled plasma optical emission spectrometry (ICP-OES)

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

DIN EN 1122 2002-02 Method B Plastics - Determination of cadmium - Wet decomposition method

CPSC-CH-E1003-09.1 2011-02 Determining lead (Pb) in paint and other similar surface coatings
(Modification: Extension for analysis cadmium, chromium, mercury)

IEC 62321-4 2013-06 + AMD1:2017-07 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: here only ICP-OES)

IEC 62321-5 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: here only ICP-OES)

1.5 Heavy metals in metals, textiles, coatings and plastics/polymers using X-ray fluorescence spectrometry

IEC 62321-3-1 2013-06 Determination of certain substances in electrotechnical products. Screening. Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

1.6 Heavy metals in metals, textiles, coatings and plastics/polymers using UV-VIS spectrophotometry (UV-VIS)

IEC 62321-7-1
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
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

1.7 Analysis of steels by spark atomic emission spectrometry

ASTM E1086-14
2014-04 Analysis of Austenitic Stainless Steel by Spark Atomic Emission
Spectrometry

1.8 Determination of pH and formaldehyde in textiles

DIN EN ISO 3071
2006-05 Textiles - Determination of pH of aqueous extract

JIS L1041: 2011
Section 8.1 Test methods for resin finished textiles - Free formaldehyde test

1.9 Tests for colour fastness

DIN EN ISO 105-B02
2014-11 Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial
light: Xenon arc fading lamp test (ISO 105-B02:2014)

DIN EN ISO 105-C06
2010-08 Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic
and commercial laundering (ISO 105-C06:2010)

DIN EN ISO 105-E01
2013-06 Textiles - Tests for colour fastness - Part E01: Colour fastness to water
(ISO 105-E01:2013)

DIN EN ISO 105-E02
2013-06 Textiles - Tests for colour fastness - Part E02: Colour fastness to sea water
(ISO 105-E02:2013)

DIN EN ISO 105-E04
2013-08 Textiles - Tests for colour fastness - Part E04: Colour fastness to
perspiration (ISO 105-E04:2013)

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DIN EN ISO 105-E07 2010-08	Textiles - Tests for colour fastness - Part E07: Colour fastness to spotting: Water (ISO 105-E07:2010)
DIN EN ISO 105-X12 2016-11	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12:2016)
DIN 53160-1 2010-10	Determination of the colourfastness of articles for common use - Part 1: Test with artificial saliva
DIN 53160-2 2010-10	Determination of the colourfastness of articles for common use - Part 2: Test with artificial sweat
AATCC TM 8:2016	Colorfastness to Crocking: Crockmeter Method
AATCC TM 15:2013	Colorfastness to perspiration
AATCC TM 16.3:2014	Colourfastness to light - Xenon arc
AATCC TM 61:2013	Colourfastness to laundering: Accelerated
AATCC TM 104:2010 (R2014)	Colourfastness to water spotting
AATCC TM 106:2013	Colourfastness to water: Sea
AATCC TM 107:2013	Colourfastness to water

1.10 Tests for determination of fibre mixtures

DIN EN ISO 1833-1 2011-01	Textiles - Quantitative chemical analysis - Part 1: General principles of testing (ISO 1833-1:2006, including Cor 1:2009)
DIN EN ISO 1833-3 2011-01	Textiles - Quantitative Chemical Analysis - Part 3: Mixtures Of Acetate And Certain Other Fibres (Method Using Acetone) (ISO 1833-3:2006) (<i>Withdrawn standard</i>)
DIN EN ISO 1833-12 2011-01	Textiles - Quantitative chemical analysis - Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastanes and certain other fibres(method using dimethylformamide) (ISO 1833-12:2006) (<i>Withdrawn standard</i>)

2 Chemical tests of materials and articles intended to come into contact with food

2.1 Determination of substances in materials and articles intended to come into contact with food using gravimetric analysis

EN 1186-1 2002-07	Materials and articles in contact with foodstuffs. Plastics. Guide to the selection of conditions and test methods for overall migration
EN 1186-3 2002-07	Materials and articles in contact with foodstuffs. Plastics. Test methods for overall migration into aqueous food simulants by total immersion
EN 1186-9 2002-07	Materials and articles in contact with foodstuffs. Plastics. Test methods for overall migration into aqueous food simulants by article filling
EN 13130-1 2004-05	Materials and articles in contact with foodstuffs. Plastics substances subject to limitation. 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

2.2 Organic Hazardous Substances in Materials and Articles intended to come into Contact with Food using High Performance Liquid Chromatography (HPLC-MS/MS)

L5A.C.0036 2019-11	Determination of Bisphenol-A in plastics using HPLC-MS/MS
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2.3 Heavy metals in materials and articles intended to come into contact with food using induced-coupled plasma optical emission spectrometry (ICP-OES)

Regulation (EU) No 10/2011 2011-02	Commission Regulation (EU) No 10/2011 of 14 January 2011 relating to plastic materials and articles intended to come into contact with foodstuff (Scope: PE or PP water cup or drinking bottle; 3% AA and 50% ethanol)
L5A.C.0049 2019-11	Specific migration of aluminium, barium, cobalt, copper, iron, lithium, manganese, nickel and zinc from plastics using ICP-OES

2.4 Organic hazardous substances in materials and articles intended to come into contact with food using gas chromatography - mass spectrometry (GS-MS/MS)

Regulation (EU) No 10/2011 2011-02	Commission Regulation (EU) No 10/2011 of 14 January 2011 relating to plastic materials and articles intended to come into contact with foodstuff (Scope: PE or PP water cup or drinking bottle; 3% AA and 50% ethanol)
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L5A.C.0050 2019-11	Specific migration of phthalates from plastics using GC-MS/MS
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3 Physical-chemical tests of toys (including child use and care articles) and fashion jewelry

3.1 Heavy metals in paints and coatings using induced-coupled plasma optical emission spectrometry (ICP-OES)

CPSC-CH-E1001-08.3 2012-11	Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry) <i>(Modification: here also for Cadmium, Chromium, Mercury)</i>
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CPSC-CH-E1002-08.3 2012-11	Determining Total Lead (Pb) in Nonmetal Children's Products <i>(Modification: here also for Cadmium, Chromium, Mercury)</i>
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4 Physical testing of commodity goods

4.1 Sample preparation

DIN EN ISO 3759 2011-08	Textiles - Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change (ISO 3759:2011)
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DIN EN ISO 6330 2013-02	Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:2012)
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4.2 Physical tests

ISO 16322-1 2005-06	Textiles - Determination of spirality after laundering - Part 1: Percentage of wale spirality change in knitted garments
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ISO 16322-2 2005-06	Textiles - Determination of spirality after laundering - Part 2: Woven and knitted fabrics
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ISO 16322-3 2005-06	Textiles - Determination of spirality after laundering - Part 3: Woven and knitted garments
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DIN EN ISO 811 2018-08	Textiles - Determination of resistance to water penetration - Hydrostatic pressure test (ISO 811:2018)
DIN EN ISO 1833-6 2019-07	Textiles - Quantitative chemical analysis - Part 6: Mixtures of viscose, certain types of cupro, modal or lyocell with certain other fibres (method using formic acid and zinc chloride) (ISO 1833-6:2018)
DIN EN ISO 1833-7 2017-12	Textiles - Quantitative chemical analysis - Part 7: Mixtures of polyamide with certain other fibres (method using formic acid) (ISO 1833-7:2017)
DIN EN ISO 1833-11 2017-12	Textiles - Quantitative chemical analysis - Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid) (ISO 1833-11:2017)
DIN EN ISO 4920 2012-12	Textile fabrics - Determination of resistance to surface wetting (spray test) (ISO 4920:2012)
DIN EN ISO 5077 2008-04	Textiles - Determination of dimensional change in washing and drying (ISO 5077:2007)
DIN EN ISO 9237 1995-12	Textiles - Determination of permeability of fabrics to air (ISO 9237:1995)
DIN EN ISO 12945-2 2000-11	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method (ISO 12945-2:2000)
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 (ISO 12947-2:2016)
DIN EN ISO 13934-1 2013-08	Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:2013)
DIN EN ISO 13935-2 2014-07	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2:2014)
DIN EN ISO 13936-2 2004-07	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (ISO 13936-2:2004)
DIN EN 12127 1997-12	Textiles - Fabrics - Determination of mass per unit area using small samples
AATCC TM 20:2013 (R2018)	Fiber Analysis: Qualitative

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AATCC TM 20A:2018	Fiber Analysis: Quantitative
AATCC TM 22:2017	Water Repellency: Spray Test
AATCC TM 127:2018	Water Resistance: Hydrostatic Pressure Test (Method A Option 2)
AATCC TM 135:2018	Determination of dimensional change of fabrics after home laundering
AATCC TM 150:2018	Dimensional stability to washing
AATCC TM 179:2017	Skewness after washing
ASTM D737-04 (R2016)	Test Method for Air Permeability of Textile Fabrics (Withdrawn standard)
ASTM D3776/D3776M-09a (2017)	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric (Option C)
ASTM D4966-12 (2016)	Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)
ASTM D5035-11 (2019)	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)

Abbreviations used:

AATCC	American Association of Textile Chemists and Colorists
AfPs	Ausschuss für Produktsicherheit
ASTM	American Society for Testing and Materials
CPSC	Consumer Product Safety Commission
DIN	Deutsches Institut für Normung
EN	European Standard
GS	Geprüfte Sicherheit
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
JIS	Japanese Industrial Standard
L5A.C.XXXX	In house test method of QAT Services Limited