

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-11180-01-00 according to ISO/IEC 17025:2017

**Period of validity: 06.04.2021 to 27.07.2022**

Date of issue: 06.04.2021

Holder of certificate:

**TÜV Rheinland Hong Kong Ltd.**

**3-4, 11/F., Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, New Territories, HONG KONG SAR  
People's Republic of China**

Tests in the fields:

**chemical and physico-chemical testing of toys, textiles, plastics, wood, leather, fashion accessories and electrical and electronic equipment; physical, mechanical and electrical testing of toys; materials coming into contact with food; physical tests of textiles**

**The testing laboratory is permitted, without being required to inform and obtain prior approval from the DAkKS, to use standard testing methods listed here with different issue dates.  
The laboratory maintains a current list of all test methods in a flexible scope of accreditation.**

*The management system requirements of ISO/IEC 17025 are written in language relevant to operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.*

*The certificate together with the annex reflects the status as indicated by the date of issue.  
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>*

**1 Selected physico-chemical and chemical tests of electrical and electronic equipment according to the requirements of RoHS recast directive**

<p>EN 62321 2009-04 BS EN 62321 2009-05</p>	<p>Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)</p>
<p>IEC 62321 2008-08</p>	<p>Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)</p>
<p>IEC 62321-1 2013-05</p>	<p>Determination of certain substances in electrotechnical products- Part 1: Introduction and overview</p>
<p>IEC 62321-2 2013-06</p>	<p>Determination of certain substances in electrotechnical products- Part 2: Disassembly, disjointment and mechanical sample preparation</p>
<p>IEC 62321-3-1 2013-06</p>	<p>Determination of certain substances in electrotechnical products- Part 3-1: Screen-Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry</p>
<p>IEC 62321-4 + AMD1:2017 CSV 2017-07</p>	<p>Determination of certain substances in electrotechnical products- Part 4: Mercury in polymers, metals and electronics by CV-AFS, CV-AAS, ICP-OES and ICP-MS</p>
<p>IEC 62321-5 2013-06</p>	<p>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</p>
<p>IEC 62321-6 2015-06</p>	<p>Determination of certain substances in electrotechnical products – Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography–mass spectrometry (GC-MS)</p>
<p>IEC 62321-7-1 2015-09</p>	<p>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</p>

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IEC 62321-7-2 2017-03	Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method
IEC 62321-8 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)
EN 1122 method B 2001-03 BS EN 1122 method B 2001-05 DIN EN 1122 method B 2002-02	Plastics - Determination of Cadmium - Wet Decomposition Method
MS-0021897_en 2017-04	Standard Operating Procedure for Determination of total cadmium in coating, plastic and metal using ICP-OES
MS-0021898_en 2017-04	Standard Operating Procedure for Determination of total cadmium in coating, plastic and metal using AAS

**2 Selected physico-chemical and chemical tests of wood, textiles, leather, plastics, rubber and toys as well as fashion accessories and indoor air**

ISO 8124-3: 2010 + A1:2014 + A2:2018 2014-05 2018-09	Safety of toys - Part 3: Migration of certain elements
ISO 14184-1 2011-08 EN ISO 14184-1 2011-08 BS EN ISO 14184-1 2011-08 DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolysed formaldehyde (water extraction method)
ISO 12460-3 2015-11 BS EN ISO 12460-3 2015-11	Wood-based panels - Determination of formaldehyde release - Part 3: Gas analysis method

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<p>ISO 12460-5 2015-11 BS EN ISO 12460-5 2015-12</p>	<p>Wood-based panels - Determination of formaldehyde release - Part 5: Extraction method (called the perforator method)</p>
<p>ISO 16000-3 2011-10</p>	<p>Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds--Active sampling method</p>
<p>ISO 16000-6 2011-12</p>	<p>Indoor air - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS/FID</p>
<p>ISO 16000-9 2006-02</p>	<p>Indoor air - Part 9: Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method</p>
<p>ISO 16000-11 2006-02</p>	<p>Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens</p>
<p>EN ISO 14362-1 2017-02 ISO 14362-1 2017-02</p>	<p>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</p>
<p>EN ISO 14362-3 2017-02 ISO 14362-3 2017-02</p>	<p>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</p>
<p>EN 71-3: 2013 A3:2018 DIN EN 71-3 2018-08 BS EN 71-3: 2013+ A3:2018</p>	<p>Safety of toys – Part 3: Migration of certain elements</p>
<p>EN 71-3 2019-04 DIN EN 71-3 2019-08 BS EN 71-3 2019-04</p>	<p>Safety of toys - Part 3: Migration of certain elements</p>

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EN 71-12 2013-06 BS EN 71-12 2013-06 DIN EN 71-12 2013-07	Safety Of Toys - Part 12: N-Nitrosamines And N-Nitrosatable Substances
EN 71-12 2016-12 BS EN71-12 2016-12 DIN EN71 2017-03	Safety Of Toys - Part 12: N-Nitrosamines And N-Nitrosatable Substances
EN 717-1:2004 2004-10	Wood-based panels. Determination of formaldehyde release. Formaldehyde emission by the chamber method
EN 717-3 1996-03 BS EN 717-3 1996-09 DIN EN 717-3 1996-05	Wood-based panels - Determination of formaldehyde release - Part 3. Formaldehyde release by the flask method
EN 1122 Method B 2001-03 BS EN 1122 Method B 2001-05 DIN EN 1122 Method B 2002-02	Plastics - Determination of cadmium - Wet decomposition method
EN 1811:2011+A1:2015 2015-07 BS EN 1811:2011+A1:2015 2015-08 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 12472 : 2005 + A1 2009 2009-06 BS EN 12472 : 2005 + A1 2009 2009-06 DIN EN 12472 2009-09	Method For The Simulation Of Wear And Corrosion For The Detection Of Nickel Release From Coated Items

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<p>EN 16516 2017-10 BS EN 16516:2017 2017-10</p>	<p>Construction products: Assessment of release of dangerous substances. Determination of emissions into indoor air</p>
<p>BS EN ISO 17234-1 2015-04 ISO 17234-1:2015 2015-04 EN ISO 17234-1:2015 2015-04</p>	<p>Leather – Chemicals tests for the determination of certain azo colorants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colorants</p>
<p>BS EN ISO 17234-2 2011-03 ISO 17234-2 2011-03 EN ISO 17234-2 2011-03</p>	<p>Leather - Chemical tests for the determination of certain azo colorants in dyed leathers Part 2 : Determination of 4-aminoazobenzene</p>
<p>CPSC-CH-C1001-09.4 2018-01</p>	<p>Standard Operating Procedure for Determination of Phthalates</p>
<p>CPSC-CH-E 1001-8.3 2012-11</p>	<p>Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewellery) (here: <i>Only Method B</i>)</p>
<p>CPSC-CH-E 1002-8.3 2012-11</p>	<p>Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products</p>
<p>CPSC-CH-E 1003-9.1 2011-02</p>	<p>Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings</p>
<p>CPSC-CH-E 1004-11 2011-02</p>	<p>Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewellery</p>
<p>AfPS 2014-08</p>	<p>GS Specification - Testing and Evaluation of Polycyclic Aromatic Hydrocarbons (PAH) for the Award of the GS Mark, by the Committee for Product Safety (AfPS), dated August 4th 2014</p>
<p>AfPS 2019-05</p>	<p>GS Specification - Testing and Evaluation of Polycyclic Aromatic Hydrocarbons (PAH) for the Award of the GS Mark, by the Committee for Product Safety (AfPS), dated May 15, 2019</p>

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AS/NZS ISO 8124-3 2012-01 AS/NZS 8124-3:2012 + A1:2016 2016-06	Safety of toys - Part 3: Migration of certain elements
ASTM F963-16 2016-10	Standard Consumer Safety Specification for Toy Safety - Clause 8.3 Test Methods for Determination of Heavy Element Content in Toys, Toy Components and Materials
ASTM F963-17 2017-08	Standard Consumer Safety Specification for Toy Safety - Clause 8.3 Test Methods for Determination of Heavy Element Content in Toys, Toy Components and Materials
CDPH/EHLB standard method v.1.1 2010-02	Standard method for the testing and evaluation of volatile organic chemical emission from indoor sources using environmental chambers Version 1.1 - CDPH/EHLB standard method v.1.1
ANSI/BIFMA M7.1/ X7.1-2011(R2016)	Standard Test Method for determining VOC emissions from office furniture systems, components and seating
ASTM D5116 2010-04	Standard Guide for Small-Scale Environmental Chamber Determination of Organic Emissions From Indoor Materials/Products
MS-0021897_en 2017-04	Standard Operating Procedure for Determination of total cadmium in coating, plastic and metal using ICP-OES
MS-0021898_en 2017-04	Standard Operating Procedure for Determination of total cadmium in coating, plastic and metal using AAS
MS-0021903_en 2017-04	Standard Operating Procedure for ASTM F963-11 Clause 4.3.7 Stuffing Materials
MS-0021906_en 2017-04	Standard Operating Procedure for Determination of total lead and arsenic content in stuffing materials (with reference to CPSC-CH-E1002-08.3

## 2.1 Test method applied with EN 71-9

EN 71-10 2005-12	<p>Safety of toys, Part 10: Organic chemical compounds - Sample preparation and extraction Clause 8.1.1 Flame retardants (For EN71 Part 9-Table 2A)</p> <p>Clause 8.1.3, Clause 8.2.1, Clause 8.3.1, Clause 8.4.1, Clause 8.5.1, Clause 8.6, Clause 8.7.1, Clause 8.8.1, Clause 8.9.1 Colorants (For EN71 Part9-Table 2B)</p> <p>Clause 8.1.4, Clause 8.2.2, Clause 8.3.2, Clause 8.4.2, Clause 8.5.2 Clause 8.6, Clause 8.7.2, Clause 8.8.2, Clause 8.9.2, Primary aromatic amine- (For EN71 Part9-Table 2 C)</p> <p>Clause 6 Monomers &amp; Solvent Migration (For EN71 Part 9 - Table 2D &amp; Table 2E)</p> <p>Clause 8.3.3 Wood preservatives (For EN71 Part9-Table 2Ga,2Gb)</p> <p>Clause 8.2.3, Clause 8.5.3, Clause 8.7.3, Clause 8.9.3, Preservatives (other than wood preservatives) (For EN71-9 – Table 2 H)</p> <p>Clause 6 Plasticizers (Migration) (For EN71 Part 9- Table 2I)</p>
EN 71-11 2005-11	<p>Safety of toys, Part 11: Organic chemical compounds - Methods of analysis Clause 5.2 Flame retardants (For EN71 Part 9-Table 2A) Clause 5.3 Colorants (For EN71 Part9-Table 2B) Clause 5.4 Primary aromatic amine (For EN71 Part9-Table 2C) Clause 5.5 Monomers and Solvent (Migration) (For EN71 Part 9 - Table 2D, Table2E) <i>(Modification: for Acrylamide: LC-DAD-MS is used for analysis instead of LC-DAD, for Phenol and Bisphenol-A: LC-DAD-MS is used for analysis instead of LC-DAD-FLD)</i> Clause 5.6 Wood Preservatives (For EN71-9 Table 2 G a) and b)) Clause 5.7 Preservatives (For EN71-9 Table 2H) excluding free formaldehyde Clause 5.8 Plasticizers (For EN71-9 Table2I)</p>

## 3 Selected physico-chemical and chemical tests of Materials coming into contact with food

EN 1186-1 2002-04	<p>Guide to the selection of conditions and test methods for overall migration</p>
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EN 1186-3 2002-04	Test methods for overall migration into aqueous food simulants by total immersion
EN 1186-9 2002-04	Test methods for overall migration into aqueous food simulants by article filling
EN1186-14 2002-09	Test methods for 'substitute tests' for overall migration from plastics intended to come into contact with fatty foodstuffs using test media iso-octane and 95% ethanol
EN 13130-23 2002-02	Determination of formaldehyde and hexamethylenetetramine in food simulants <i>(here: formaldehyde only)</i>
61. Mitteilung: Bundesgesetzbl- Gesundheitsforsch- Gesundheitsschutz 46 S.362 2003-04	Untersuchung von Bedarfsgegenständen aus Silicon - Elastomeren - B. Bestimmung der flüchtigen Anteile
MS-0021910_en 2017-04	Standard Operating Procedure for Migration of heavy metal from metals and alloys used in food contact materials

**4 Physical testing of toys**

ISO 8124-1 2014-12	Safety of toys - Part 1: Safety aspects related to mechanical and physical properties
ISO 8124-1 2018-03	Safety of toys - Part 1: Safety aspects related to mechanical and physical properties
ISO 8124 -2 2014-08	Safety of toys Part 2: Flammability (excluding Viscosity & Flammability on liquid and gas)
ISO 11540 2014-03	Caps for writing and marking instruments intended for use by children up to 14 years of age - Safety requirements
EN 71-1:2014+A1:2018 DIN EN 71-1 2018-08	Safety of toys - Part 1: Mechanical and physical properties Excluding: 4.20.2.5 Toys using headphones or earphones
EN 71-2 2011+ A1:2014	Safety of toys - Part 2: Flammability Excluding: Viscosity Test, Flammability of Liquids and gases
EN 14350-1 2004-11	Child use and care articles - Drinking equipment - Part 1: General and mechanical requirements and tests

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EN 14372 2004-11	Child use and care articles. Cutlery and feeding utensils. Safety requirements and tests 5. Requirements (excluding 5.4 chemical requirements) 6. Test Methods (excluding 6.3 Chemical tests)
BS 7272-1 2008-04	Writing and marking instruments. Specification for caps to reduce the risk of asphyxiation
BS 7272-2+A1 2014-06	Writing and marking instruments. Specification for end closures to reduce the risk of asphyxiation
ASTM F963-16 2016-10	Standard Consumer Safety Specification for Toy Safety Excluding: Section 5 Labelling requirements, 6 Instruction literature, 7 Producer's markings.
ASTM F963-17 2017-08	Standard Consumer Safety Specification for Toy Safety Excluding: Section 5 Labelling requirements, 6 Instruction literature, 7 Producer's markings
16 CFR 1500.44 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Method for determining extremely flammable and flammable solids.
16 CFR 1500.48 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age
16 CFR 1500.49 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age – not over 36 months of age.
16 CFR 1500.50 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Test methods for simulating use and abuse of toys and other articles intended for use by children.

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16 CFR 1500.51 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Test methods for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less.
16 CFR 1500.52 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age.
16 CFR 1500.53 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age.
16 CFR 1501 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.
16 CFR 1511 2019-01	US 16 CFR Federal Hazardous Substances Act Regulations 16 Commercial Practices Chapter II - Consumer Product Safety Commission - Requirements for pacifiers
AS/NZS 8124-1 2016 AS/NZS ISO 8124.1 2019	Safety of toys Part 1: Safety aspects related to mechanical and physical properties
AS/NZS ISO 8124-2 2009-05 AS/NZS 8124-2 2016	Safety of toys Part 2: Flammability (excluding Viscosity & Flammability on liquid and gas)

## 5 Electrical testing of Toys

<p>EN 62115:2005 + A2:2011 + A11:2012 + A12:2015 EN IEC 62115:2020+A11:2020 DIN EN 62115:2016 IEC 62115:2003+ A1:2004+ A2:2012, IEC 62115:2017 ed. 2.0 IEC 62115:2017+Cor1:2019 AS/NZS 62115:2011 AS/NZS 62115:2018</p>	<p>Electric Toys – Safety</p>
<p>IEC 60825-1:1993 + A1:1997 + A2:2001 EN 60825-1:1994 + A1:2002 + A2:2001 IEC 60825-1:2014 EN 60825-1:2014 DIN EN 60825-1:2014 VDE 0837-1:2008-05</p>	<p>Safety of laser products – Part 1: Equipment classification and requirements.</p>
<p>IEC TR 60825-13:2011</p>	<p>Safety of laser products - Part 13: Measurements for classification of laser products</p>
<p>IEC 62471:2006 EN 62471:2008 DIN EN 62471:2009</p>	<p>Photobiological safety of lamps and lamp systems. Limitation: Only for LED-Lamps.</p>
<p>IEC/TR 62471-2:2009</p>	<p>Photobiological safety of lamps and lamp systems - Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety</p>
<p>ASTM F963-16 2016-10</p>	<p>Standard Consumer Safety Specification for Toy Safety 4.25 Battery - operated toys 8.17 Stalled motor test for battery-operated toys 8.18 Tests for Battery-Powered Ride-on Toys 8.19 Test for Toys that Contain Secondary Cells or Batteries</p>
<p>ASTM F963-17 2017-08</p>	<p>Standard Consumer Safety Specification for Toy Safety 4.25 Battery - operated toys 8.17 Stalled motor test for battery-operated toys 8.18 Tests for Battery-Powered Ride-on Toys 8.20 Test for Toys that Contain Secondary Cells or Batteries</p>

**6 Physical tests of textiles**

DIN 53160-1 2010-10	Determination of the colourfastness of articles for common use Part 1: Resistance to artificial saliva
DIN 53160-2:2010	Determination of the colourfastness of articles for common use - Part 2: Resistance to artificial sweat

**Abbreviations used:**

AfPS	Ausschuss für Produktsicherheit (Product Safety Committee)
ASTM	American Safety Testing Method
AZ/NZS	Standards Australia and Standards New Zealand
BS	British Standard
CDPH / EHLB	California Department of Public Health / Environmental Health Labs
CFR	Code of Federal Regulation
CPSC	U.S. Consumer Product Safety Commission
DIN	German Standard
EN	European Standard
ISO	International Organization for Standardization
MS	In-house procedures/Procedural Instructions of TÜV Rheinland Hong Kong Ltd.
RoHS recast	Directive 2011/65/EU and its amendments on the “Restriction of the use of certain hazardous substances in electrical and electronic equipment”