



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

This is to attest that

## STQ TESTING SERVICES CO., LTD.

ROOM 301 B3 NO. 218, XINGHU STREET  
SUZHOU, JIANGSU 215123  
PEOPLE'S REPUBLIC OF CHINA

Testing Laboratory TL-532

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing January 13, 2016, for the test methods listed in the approved scope of accreditation.

*(see laboratory's scope of accreditation for fields of testing and accredited test methods)*

*This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.*

*See <http://iasonline.org/More/search.html> for current accreditation information, or contact IAS at 562-364-8201.*



*C.P. Ramani*

C.P. Ramani, P.E., C.B.O  
President



## SCOPE OF ACCREDITATION

IAS Accreditation Number	
Accredited Entity	STQ Testing Services Co., Ltd.
Address	Room 301 B3 No.218, Xinghu Street Suzhou, Jiangsu 215123 People's Republic of China
Contact Name	Leo Qin Quality Manager
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Effective Date of Scope	January 13, 2016

TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Toys and Children's Products/Jewelry	1	Phthalates (DBP, BBP, DEHP, DINP, DNOP, DIDP)	CPSC-CH-C1001-09.3(2010) Standard Operating Procedure for Determination of Phthalates	
			EN 14372 : 2004 Directive 2005/84/EC Child Use and Care Articles - Cutlery and Feeding Utensils - Safety Requirements and Tests	Clause 6.3.2 only
			Child use and care articles - Soother holder - Safety requirements and test methods EN 12586:2007+A1:2011	
			Canadian product safety reference manual book 5 – laboratory policies and procedures, part B: test methods section C-34 (2007-07-26) Canada Consumer Products Safety (S.C.2010, C.21/Phthalates Regulations SOR/2010-298	
	2	Total Lead	CPSC-CH-E1001-08.3(2012) Operation Procedure – Determination to Total Lead in Child Metal Product (including Children's Metal Jewelry)	
			CPSC-CH-E1002-08.3(2012) Operating Procedure for Determining Total Lead (Pb) in Non-metal Children's Products	
			CPSC-CH-E1003-09.1 (2011) Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings	
			ASTM F 963-11 Specification for Migration of Certain Elements	Clause 8.3 only
			ASTM F2923-11 Standard Specification for Consumer Product Safety for Children's Jewelry	
	3	Soluble Pb, Cd, Cr, Hg, As, Se, Sb, Ba	ASTM F 963-11 Consumer Safety Specification for Toy Safety Item 4.3.5 Paint and Similar Surface-Coating Materials	Clause 8.3 only
	4	Soluble Cd	CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry	ICP-OES



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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Toys and Children's Products/Jewelry	5	Mechanical and Physical Properties	Safety of Toys--Part 1 : Mechanical and Physical Properties EN71-1:2011 (continued)	Accredited only for: 4.1 Material Cleanliness, 4.2 Assembly, 4.3 Flexible Plastic Sheeting, 4.4 Toy Bags, 4.5 Glass, 4.6 Expanding Materials, 4.7 Edges, 4.8 Points and Metallic, Wires, 4.9 Protruding Parts, 4.12 Balloons, 4.22 Small Balls, 5.1 General Requirements, 5.2 Soft-filled Toys and Soft Filled Parts of a Toy,
				5.3 Plastic Sheeting, 5.4 Cords, Chains and Electrical Cables in Toys, 5.7 Glass and Porcelain, 5.8 Shape and Size of Certain Toys, 5.9 Toys Comprising Monofilament Fibers, 5.10 Small Balls, 5.11 Play Figures, 5.12 Hemispheric-shaped Toys, 6 Packing , 7 Warning, Marking and Instructions for Use.
			ASTM F 963-11 Consumer Safety Specification for Toy Safety	Accredited only for: 4.1 Material Quality, 4.6 Small Objects, 4.7 Accessible Edges, 4.8 Projections, 4.9 Accessible Points, 4.10 Wires or Rods, 4.11 Nails and Fasteners, 4.12 Plastic Film, 4.17 Wheels, Tires, and Axles, 4.18 Holes, Clearances, and Accessibility of Mechanisms, 4.24 Squeeze Toys, 4.26 Toys Intended to be attached to a Crib or Playpen, 4.27 Stuffed and Beanbag-Type Toys, 4.31 Balloons, 4.32 Certain Toys with Spherical Ends, 4.33 Marbles, 4.34 Balls, 4.35 Pompoms, 4.36 Hemispheric-Shaped Objects, 5 Safety Labeling Requirements, 6 Instructional Literature, 7 Producer's Markings



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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Toys and Children's Products/Jewelry	6	Flammability	Safety of Toys — Part 2 Flammability EN71-2:2011, BS EN71-2:2011	Excluding Clause: 4.1 Flammable Gases, Extremely Flammable Liquids, High Flammable Liquids, Flammable Liquids and Flammable Gels
			ASTM F963-11 Consumer Safety Specification for Toy Safety	Section 4.2 A5 Flammability Testing Section and 4.2 A5 Flammability Testing only
	7	Plasticizer (migration) (Triphenyl phosphate, Tri-o-cresyl phosphate, Tri-m-cresyl phosphate, Tri-p-cresyl phosphate)	Safety of Toys—Part 9: Organic Chemical Compounds Requirements EN71-9:2005+A1:2007 Safety of Toys, Part 10: Organic chemical compounds - Sample preparation and extraction EN71-10:2005; Safety of toys -Part 11: Organic chemical compounds - Methods of analysis EN71- 11:2005	
	8	Formaldehyde	Safety of Toys—Part 9: Organic Chemical Compounds Requirements EN71-9:2005+A1:2007 Safety of Toys, Part 10: Organic chemical compounds - Sample preparation and extraction EN71-10:2005 ; Safety of toys-Part 11: Organic chemical compounds -Methods of analysis EN71- 11:2005	
	9	pH value	Safety of Toys—Part 9:Organic Chemical Compounds Requirements EN71-9:2005+A1:2007 Safety of Toys, Part 10: Organic chemical compounds -Sample preparation and extraction EN71-10:2005 ; Safety of toys -Part 11: Organic chemical compounds - Methods of analysis EN71- 11:2005	
	10	Souple Heavy metal	Safety of toys - Part 3 : migration of certain elements BS EN 71-3:2013+A12014	
	11	Nickel Release	ASTM F2923-11 Standard Specification for Consumer Product Safety for Children's Jewelry	



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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Toys and Children's Products/Jewelry	12	Caps	Writing and marking instruments- Part1:Specification for caps to reduce the risk of asphyxiation S 7272-1:2008	
	13	End closures	Writing and marking instruments- Part2: Specification for end closures to reduce the risk of asphyxiation BS 7272-1:2008	
Food Contact Materials	1	Extractable Pb and Cd Content	FDA CPG 7117.06:2005 Pottery (Ceramics) Imported and Domestic - Cadmium Contamination	ICP-OES
			FDA CPG 7117.07:2005 Pottery (Ceramics); Imported and Domestic - Lead Contamination	ICP-OES
			AOAC 973.32:2000 Lead and Cadmium Extracted from Ceramic Ware	ICP-OES
			Standard Test Method for Lead and Cadmium Extracted from the Lip and Rim Area of Glass Tumblers Externally Decorated with Ceramic Glass Enamels ASTM C927 - 80(2014)	ICP-OES
	2	Overall Migration	Materials and Articles in Contact with Foodstuffs-Plastics-Part 1: Guide to the Selection of Conditions and Test Methods for Overall Migration EN 1186-1:2002 Materials and Articles in Contact with Foodstuffs-Plastics-Part 9: Test Methods for Overall Migration into Aqueous Food Stimulants by Article Filling EN 1186-9:2002	
			Materials and Articles in Contact with Foodstuffs-Plastics-Part 1:Guide to the Selection of Conditions and Test Methods for Overall Migration EN 1186- 1:2002 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 ISO-octane and 95% Ethanol EN 1186-14:2002	Total Immersion Method and Article Filling Method only



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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Food Contact Materials	3	Evaporation Residue	Ethylene-vinyl Acetate Copolymers FDA 21 CFR 177.1350	
			Melamine-formaldehyde Resins in Molded Articles FDA 21 CFR 177.1460	
			PA Resin FDA 21 CFR 177.1500	
			Polyester Resins, Cross Linked FDA 21 CFR 177.2420	
			Paper and paperboard FDA 21 CFR 176.170	
			Closure with sealing gaskets FDA 21 CFR 177.1210	
			Olefin polymers FDA 21 CFR 177.1520	
			Rubber articles FDA 21 CFR 177.2600	
	4	Performance Test	EN 12983-1:2000 Cookware - Domestic cookware for use on top of a stove, cooker or hob - Part 1: General requirements	
			Cookware Manufacturers Association Engineering Standards For engineering Standards or Cookware & Bakeware	
5	Resistance to Microwave Heating	Materials and articles in contact with food stuffs - Test method for the resistance to microwave heating of ceramic, glass, glass- ceramic or plastic cookware BS EN 15284:2007		
6	Dishwashing Resistance	Mechanical dishwashing resistance of utensils — Part 1: Reference test method for domestic articles EN 12875- 1:2005		
Plastic	1	Polycyclic Aromatic Hydrocarbons (PAHs)	ZEK01.4-08 Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAH) in the Course of GS-Mark Certification	Include all 18 PAHs
		Cd	Plastics –determination of cadmium–wet decomposition method EN1122:2001	
Electrical and Electronic Equipment	1	Pb,Cd,Hg,Cr,Br	IEC 62321-3-1:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry	



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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Electrical and Electronic Equipment	2	Hg	IEC 62321-4:2013 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	
	3	Pb,Cd,Cr	IEC 62321-5:2013 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	
	4	CrVI	Electrotechnical products – Determination of levels of six regulated substances IEC 62321 : 2008	Annex C (Informative) Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method
			IEC 62321-7-1:2015 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	
			Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys-Test methods ISO 3613:2000€	
	5	PBBs, PBDEs	IEC 62321-6:2015 Determination of certain substances in electrotechnical products – Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography–mass spectrometry (GC-MS)	





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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Automotive Components	1	Formaldehyde	Polymer Materials-Measuring Emissions of Formaldehyde PV 3925-1994	
			Determination of Formaldehyde from Vehicle Interior with Modified Flask Method VDA 275:1994	
			Determination of the Release of Formaldehyde from Moulded Parts for the Vehicle Interior GME60271	
			VCS 1027,2739 Determination of Formaldehyde Emission from Components in Vehicle Interiors	
	2	VOC	Thermodesorption Analysis of Organic Emissions for the Characterization of Non-metallic Automobile Interior Materials VDA 278:2011	
			Interior air of road vehicles -- Part 2: Screening method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials -- Bag method ISO 12219-2-2012	
	3	<i>PBBs, PBDEs</i>	Test Methods of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in Automotive Materials QC/T 944-2013	
	4	CrVI	Test Methods of Hexavalent Chromium in Automotive Materials QC/T 942-2013	Test Methods 1, 2, 3 and 4 only
	5	Pb, Cd	Test Methods of Lead and Cadmium in Automotive Materials QC/T 943-2013	Test Methods 1 and 3 only
	6	Hg	Test Methods of Mercury in Automobiles Materials QC/T 941-2013	Test Methods 1 and 2 only
Rubber	1	Tensile properties	Standard test method for vulcanized rubber and thermoplastics elastomers ASTM D412-06a (2012)	
	2	Hardness	Standard Test Method for Rubber Property—Durometer Hardness ASTM D2240-05(2010)	





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TEST OBJECT	No.	ITEM, PARAMETER	TITLE, CODE OF STANDARD OR METHOD	NOTE
Plastics	1	Density and Relative Density	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement ASTM D 792-13	
	2	Tensile Properties	Standard test method for tensile properties of plastics ASTM D638-14	
	3	Izod Impact Properties	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics ASTM D256-10	
	4	Flow Rate (MFR) and the Melt Volume-Flow Rate (MVR)	Standard Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer ASTM D 1238-2013	
Environmental Testing	1	Cold	Standard Test Method for Cold IEC60068-2-1	
	2	Dry Heat	Standard Test Method for Dry heat IEC60068-2-2	
	3	Damp Heat, Steady State	Standard Test Method for Damp Heat, Steady State IEC60068-2-78	
	4	Dust and Sand	Standard Test Method for Dust and Sand IEC60068-2-68	
	5	Change of Temperature	Standard Test Method for Change of Temperature IEC60068-2-14	
	6	Salt Spray Tests	Standard Test Method for Salt spray tests ISO 9227:2012	
Outdoor Furniture	1	General Safety Requirements	Outdoor furniture. Seating and tables for camping, domestic and contract use. General safety requirements BS EN 581-1:2006	
	2	Mechanical Safety Requirement and Test Methods	Outdoor seating for camping, domestic and contract use Part 2: mechanical safety requirement and test methods BS EN 581-2:2009	
	3	Mechanical Safety Requirement and Test Methods	outdoor furniture - seating and tables for camping, domestic and contract use Part 3: mechanical safety requirement and test methods for tables BS EN 581-3:2007	