

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



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Accredited to  
ISO/IEC 17025:2005

### ITS Testing Services (UK) Limited

Issue No: 041 Issue date: 16 April 2012

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#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOTWEAR	<u>Physical Tests</u>	
	Breaking load	BS 3424:Part 4:6A:1982 (Withdrawn) BS EN ISO 1421:1998
	Buckle/trim attachment strength	BS 5131:Section 5.11:1981(1992)
	Colourfastness to circular rubbing	BS 1006:UK/LC:1990
	Colour Fastness to cycles of to and fro rubbing	BS EN ISO 11640:1998
	Colour Fastness to water spotting (Leather)	BS EN IS 15700:1999
	Colour Fastness to water	BS EN 105 - E01:1996
	Colour Fastness to perspiration	BS EN 105 - E04:1996
	Colour Fastness to water spotting	BS EN 105 - E07:1997
	Colour Fastness to rubbing	BS EN 105 - X12:2002
	Hardness of soles	BS ISO 48:2010
	Hardness of top pieces	ASTM D2240-05 BS EN ISO 868:2003
	Heel attachment strength	SATRA PM113:May 1989 BS EN 12785:2000
	Heel fatigue	BS EN ISO 19956:2004
Resistance to flexing	BS 3424:Part 9:NA1:1996 ISO 7854:1995	



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FOOTWEAR (cont'd)	<u>Physical Tests</u> (cont'd)	
	Seam strength	BS 5131:Section 5.13:1980(1992)
	Shoelace breaking load	BS 5131:Section 3.7:1991
	Single tear strength	BS 3424:Part 5:7C:1982(1996)
	Sole adhesion peel strength	SATRA AM11:May 1992
	Strength at stitch lines	BS 5131:Section 3.1:1991
	Insole pin holding strength	BS EN 12745:1999
	Tensile stress-strain properties of vulcanised rubber	BS ISO 37:2009
	Polymeric	BS ISO 2023:1994 Annex D
	Water penetration (Bally)	BS EN ISO 5402:2002
	Oven aging of complete footwear	BS 5131:5.3:1990
	Top piece attachment strength	SATRA PM108:1992
	Shoe lace abrasion resistance	BS 5131:Section 3.6:1991
	Force required to pull heel pins out of shoe heels	BS EN ISO 19957:2004
	Qualitative peel	SATRA PM148:1997
	Grain crack resistance of sole	BS EN ISO 3378:2002
	Whole sole flex (Bata Belt)	SATRA PM133:1993
	Ross flex	BS 5131:Section 2.1:1991
Elastic, limit of useful extension	SATRA PM102:1990 BS EN ISO 10765:2010	
Elastic, resistance to repeated extension	SATRA PM103:1992 BS EN ISO 10768:2010	
Eyelet attachment	SATRA PM149:1991 and SATRA PM150:1991	
Machine washability	SATRA PM158:Jan 1992	



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FOOTWEAR (cont'd)	<u>Physical Tests</u> (cont'd)	
	Stretch and flex	SATRA PM147:June 1992
	Lace tag retention	SATRA PM175:June 1995
	Falling mass shock absorption	SATRA PM142:May 1992
	Whole shoe flex	SATRA PM92:1992
	Buckles, 3 point bending	SATRA PM141:1994
	Slip Resistance	SATRA TM 144:1999 EN 13287:2007
	Energy absorption at the seat region	BS EN 12743:1999
	Abrasion Resistance:- Martindale abrasion for uppers, linings and insocks	BS EN 13520:2002
	Water vapour permeability	BS EN ISO 14268:2002
	Thickness	BS EN ISO 2589:2002
Rubber	Thickness	BS ISO 23529:2004
Polymeric	Thickness	ISO 4593:1993 BS 2982:Part 6:Method 630A:1994
Textile uppers and coated fabric uppers	Tear strength	ISO 4674:2003 BS EN ISO 4674:2003
Leather	Tear strength	ISO 3377:1975 (Withdrawn) BS EN ISO 3377:2002
	Surface Coating Thickness	BS EN ISO 17186:2002
	Adhesion of Finish	BS EN ISO 11644:2009
Textile	Thickness	BS EN ISO 2286-3:1998
	Tear strength	ISO 4674:1977:A2 (Withdrawn)
Coated fabric	Thickness	ISO 2286:1998



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FOOTWEAR (cont'd)  Touch and Close Fasteners	<u>Physical Tests</u> (cont'd)  Peel Strength  Cycling  Shear Strength  <u>Chemical Tests</u>  Corrosion resistance  pH value	BS EN 12242:2000 BS EN ISO 22777:2004  BS EN 1414:1997  BS EN 13780:2003 BS EN ISO 22776:2004  SATRA CM10:Sept 1992 BS EN ISO 22775:2004  BS EN ISO 4045:2008
LEATHER  Outsole	<u>Physical Tests</u>  Abrasion resistance  Determination of density - vulcanised rubber  Resistance to fuel oil  Split tear strength of cellular soling  Tear strength  Floor Marking  Abrasion Resistance - Reciprocating method	BS EN ISO 4642:2002  BS EN ISO 2781:2008+A1:2010  BS EN 12743:1999  SATRA PM65 (June 1992) BS EN 12771:2000  BS ISO 34-2 :2007:  SATRA PM 223  SATRA PM84





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FOOTWEAR/PPE	Fire Fighters Footwear  Footwear for use in violent situations	BS EN 15090:2006 excluding clauses 6.3.2 & 6.3.3  BS 7971-5:2004
GLOVES	Sizing Dexterity Water vapour transmission Water vapour absorption  Abrasion resistance Blade cut resistance Tear resistance Puncture resistance	BS EN 420:2003 + A1:2009 EN 420:2003 Para 6.1 Para 6.2 Para 6.3 Para 6.4  EN 388: 2003 Para 6.1 Para 6.2 Para 6.3 Para 6.4
NURSERY PRODUCTS  Baby nests  Pillows	<u>Physical and Safety Testing</u>  Air Flow, only  Air flow	  BS 6595:1985(1997) (withdrawn)  BS 4578:1970(1991)
TEXTILES  Fabrics and/or garments	<u>Chemical Tests</u>  <u>Performance</u>  Wettability of textile fabrics  Wicking rate (vertical suspension)  Evaporation  Vertical wicking  Water absorption (Static immersion test)  Spray rating	  IHTM 016 BS 4554:1970  IHTM 017  MOD specification  MOD specification  BS 3449:1990  BS EN 24920:1992 BS 3424:Part 26, Method 29D:1990



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TEXTILES (cont'd)	<u>Performance</u> (cont'd)	
Fabrics and/or garments (cont'd)	Water repellency of fabrics by the Bundesmann rain-shower test	BS EN 29865:1993 ISO 9865:1991
	<u>Physical Tests</u>	
Fabrics and/or garments	Appearance after wash	BS EN ISO 15487:2001
	Bursting strength	BS 4768:1972(1997) (withdrawn) BS EN ISO 13938-2:1999
	Crumpleflex	BS EN ISO 7854:1997, Method C BS 3424:Part 9:1996, Method C
	Hydrostatic head test	BS EN 20811:1992 BS 3424:1990:Parts 29A and 29C
	Water resistance (hydrostatic head) of coated fabrics	ISO 1420:2001
	Lining fabrics	BS 4560:1990 Excluding Appendix C
	Abrasion resistance	BS 5690:1991(1997) (withdrawn) BS EN ISO 12947:99, Parts 1-4
	Sock abrasion	BS EN 13770:2002
	Thermal properties: <span style="display: inline-block; vertical-align: middle; border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;">Two plate method Single plate method</span>	Based on BS 4745:1990 (withdrawn) IHTM 031 IHTM 032
	Measurement of thermal and water vapour resistance (SGH)	BS EN 31092:1994 ISO 11092:1993
	Stretch properties	BS 14704-1:2005
	Fabric weight	BS 2471:1978(1997) (withdrawn) BS EN 12127:1998 BS 2866:1984(1996)
	Elasticity of narrow fabrics	EN 14704-3:2006 Method A only



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TEXTILES (cont'd)	<u>Physical Tests</u> (cont'd)	
Fabrics and/or garments (cont'd)	Pilling resistance	EN ISO 12945:Parts 1, 2 and 3: 2001
	Seam slippage/strength	BS 3320:1988(1995) (withdrawn) BS EN ISO 13935-1 and 2:1999 BS EN ISO 13936-1:2004 ASTM D434-95 (withdrawn)
	Tensile strength:	
	Strip	BS EN ISO 13934-1:1999 ISO 5081:1977 (withdrawn) BS 2756:1986(1995) (withdrawn)
	Grab	BS EN ISO 13934-2:1999 ISO 5082:1982 (withdrawn)
	Tear	BS EN ISO 13937-1 to 4:2000 BS EN ISO 4674-2:1998 BS 4303:1968(1995) (withdrawn) BS 4443-7:1992 + a1:2008
	Puncture Resistance	BS EN 863:1996
	Washing and drying	BS 4923:1991 (withdrawn) BS 5651:Sections 3, 5 and 6:1989 BS 5651:1978 (withdrawn) BS EN 26330:1994 (withdrawn) BS EN ISO 6330:2001 BS 5807:1987 (withdrawn) BS EN 25077:1994 (withdrawn)
	Thermal Resistance	BS 4745:1990 (Withdrawn) BS 4745:2005 BS 4745:1990 ISO 5085-1:1989
Coated fabrics	Accelerated ageing	BS 3424:Part 12:Method C:1996 EN 12280-1:1998 EN 12280-3:2002
Slide fasteners	Physical tests	BS 3084:2006 ANNEXS B & G only



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TEXTILES (cont'd)	<u>Physical Tests</u> (cont'd)	
Fabrics	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237:1995 ASTM D 737-96 (withdrawn) ASTM D 737-08 <sup>e</sup>
	<u>Colour Fastness to:</u>	
	Print rubbing	BS 3424-14 Method 16:1985 IHM Textiles 054, Issue 2
	Rubbing	BS EN ISO 105:1996, X12 (withdrawn) BS EN ISO 105-X12:2002
	Blocking resistance	ISO 5978:1990 BS EN 25978:1993
	Coating adhesion (peel strength)	ISO 2411:1991 (withdrawn) BS 3424:Part 7:1982(1996) (withdrawn)
	Tear strength	ISO 4674-1:1997 (withdrawn) BS 3424:Part 5:1982(1996)
	Tear strength/extension	BS 3424:Part 4:1982(1996) (withdrawn)
	Water vapour permeability	BS 3424:Part 34:Method 37:1992 BS 7209:1990 (except Appendix E)
	Safety of Childrens sleeping bags. (Thermal resistance test)	BS 8510:2009:Clause 7.2 Only
TEXTILES/QUILTS/SLEEPING BAGS	Thickness	BS EN ISO 5084:1997
LEATHER	Water resistance (hydrostatic head) of leather	BS EN 14289:2003
TEXTILE, LEATHER	Banned Azo dyes	IHTM ToyChem 10 in accordance with GB/T 17592:2006 BS EN 14362:1:2003 BS EN 14362:2:2003 To meet the requirements off REACH Annex XVII (ITEM 43) BS EN 17234:2010



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CERAMIC WARE, GLASSWARE, GLASS CERAMIC WARE and VITREOUS ENAMEL WARE	<u>Chemical Tests</u>  Lead and cadmium release	IHTM ToyChem 25, incorporating BS 6748:1986, SI 1179 ISO 7086-1:2000 and 7086-2:2000
GLOBAL MIGRATION ON PLASTIC FOOD CONTACT ARTICLES	Determination of migration from plastic articles and materials intended to come into contact with food  Dye migration	Documented In-House Methods per EC Directive 2002/72EC based on BS EN 1186:2002 Parts 1, 2, 3, 8, 9 and 14  IHTM ToyChem 26
PENCILS and GRAPHIC INSTRUMENTS	<u>Chemical Tests</u>  Determination of the soluble components of: Antimony, Arsenic, barium cadmium, chromium, lead mercury, selenium	Documented In-House Method using - ICP OES and/or ICP MS In accordance with The Pencils and Graphic Instruments (Safety) Regulations 1998
WRITING and MARKING INSTRUMENTS	<u>Safety Tests</u>  Safety of pen caps  Safety of end closures	BS 7272-1:2008  BS 7272-2:2008
CANDLES	Fire safety  Physical/Thermal/Chemical/Safety  Soot index	Intertek Candle Protocol IHTM ToyCandles 01; EN 15493:2007  IHTM - ITS-01001-EU:July 2008  EN 15426:2007



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TOYS and TOY PACKAGING	<u>Physical and Mechanical Tests</u>	BS EN 71-1:2005 + A9:2009 (withdrawn) BS EN 71-1:2011  4 General requirements 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 4.10 Parts moving against each other 4.10.1 Folding and sliding mechanisms 4.10.2 Driving mechanisms 4.10.3 Hinges 4.10.4 Springs 4.11 a), b), d) Mouth-actuated toys and other toys intended to be put in the mouth 4.12 Balloons 4.14 Enclosures 4.14.1 a), b) Toys which a child can enter 4.14.2 Masks and helmets 4.15 Toys intended to bear the mass of a child 4.15.1 Toys propelled by a child or by other means 4.15.2 Toy bicycles 4.15.3 Rocking horses and similar toys 4.15.4 Toys not propelled by a child 4.15.5 Toy scooters 4.16 Heavy immobile toys 4.17 Projectiles 4.17.1 General 4.17.2 Projectile toys without stored energy 4.17.3 Projectile toys with stored energy 4.17.4 Bows and arrows 4.18 Aquatic toys and inflatable toys (see A.23)



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<p>TOYS and TOY PACKAGING (cont'd)</p>	<p><u>Physical and Mechanical Tests</u> (cont'd)</p>	<p>BS EN 71-1:2005 + A9:2009 (withdrawn) BS EN 71-1:2011 (cont'd)</p> <p>4.19 Percussion caps specifically designed for use in toys and toys using percussion caps 4.21 Toys containing a non-electrical heat source 4.22 Small balls 4.23 Magnets 4.23.1 General 4.23.2 Toys other than magnetic/ electrical experimental sets intended for children over 8 years 4.23.3 Magnetic/electrical experimental sets intended for children over 8 years 4.25 Toys attached to food (see A.55) 5 Toys intended for children under 36 months 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 5.5 Liquid-filled toys 5.6 Speed limitation of electrically-driven ride-on toys 5.7 Glass and porcelain 5.8 Shape and size of certain toys 5.9 Toys comprising monofilament fibres 5.10 Small balls 5.11 Play figures 5.13 Suction cups 5.14 Straps intended to be worn fully or partially around the neck 6 a), b), c), d) Packaging 7 Warnings, markings and instructions for use 7.1 General 7.2 Toys not intended for children under 36 months 7.3 Latex balloons 7.4 Aquatic toys</p>



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<p>TOYS and TOY PACKAGING (cont'd)</p>	<p><u>Physical and Mechanical Tests</u> (cont'd)</p>	<p>BS EN 71-1:2005 + A9:2009 (withdrawn) BS EN 71-1:2011 (cont'd)</p> <p>7.5 Functional toys 7.6 Hazardous sharp functional edges and points 7.7 Projectiles 7.7.1 Toys with projectiles which are able to discharge an object other than that provided with the toy 7.7.2 Toys capable of discharging a projectile with a kinetic energy greater than 0,08 J 7.8 Imitation protective masks and helmets 7.9 Toy kites 7.10 Roller skates, inline skates, skateboards and certain other ride-on toys 7.10.1 Roller skates, inline skates and skateboards 7.10.2 Ride-on toys without a braking device 7.10.3 Electrically-driven ride-on toys 7.10.4 Instructions for use 7.11 Toys intended to be attached to or strung across a cradle, cot, or perambulator 7.12 Liquid-filled teethers 7.13 Percussion caps specifically designed for use in toys 7.14 Acoustics 7.15 Toy bicycles 7.16 Toys intended to bear the mass of a child 7.17 Toys comprising monofilament fibres 7.18 Toy scooters 7.19 Rocking horses and similar toys 7.20 Magnetic/electrical experimental sets 7.21 Toys with electrical cables exceeding 300 mm in length</p>



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<p>TOYS and TOY PACKAGING (cont'd)</p>	<p><u>Physical and Mechanical Tests</u> (cont'd)</p>	<p>BS EN 71-1:2005 + A9:2009 (withdrawn) BS EN 71-1:2011 (cont'd)</p> <p>7.22 Toys with cords or chains intended for children of 18 months and over but under 36 months</p> <p>8 Test methods</p> <p>8.1 General requirements for testing</p> <p>8.2 Small parts cylinder</p> <p>8.3 Torque test</p> <p>8.4 Tension test</p> <p>8.4.1 Apparatus</p> <p>8.4.2 Procedure</p> <p>8.5 Drop test</p> <p>8.6 Tip over test</p> <p>8.7 Impact test</p> <p>8.8 Compression test (see 4.6, 4.14.2, 4.22, 5.1, 5.10, 5.12, 5.13 and A.39)</p> <p>8.8 Compression test</p> <p>8.9 Soaking test</p> <p>8.10 Accessibility of a part or component</p> <p>8.10.1 Principle</p> <p>8.10.2 Apparatus</p> <p>8.10.3 Procedure</p> <p>8.11 Sharpness of edges</p> <p>8.11.1 Principle</p> <p>8.11.2 Apparatus</p> <p>8.11.3 Procedure</p> <p>8.12 Sharpness of points</p> <p>8.12.1 Principle</p> <p>8.12.2 Apparatus</p> <p>8.12.3 Procedure</p> <p>8.13 Flexibility of metallic wires</p> <p>8.13.1 General</p> <p>8.13.2 Metallic wires and other metallic components intended to be bent</p> <p>8.13.3 Metallic wires likely to be bent</p> <p>8.14 Expanding materials</p> <p>8.15 Leakage of liquid-filled toys</p> <p>8.16 Geometric shape of certain toys</p> <p>8.18 Folding or sliding mechanisms</p> <p>8.18.1 Loads</p>



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TOYS and TOY PACKAGING (cont'd)	<u>Physical and Mechanical Tests</u> (cont'd)	BS EN 71-1:2005 + A9:2009 (withdrawn) BS EN 71-1:2011 (cont'd)  8.18.2 Toy pushchairs and perambulators 8.18.3 Other collapsible toys 8.20 Cords cross-sectional dimension 8.21 Static strength 8.22 Dynamic strength 8.22.1 Principle 8.22.2 Loads 8.22.3 Procedure 8.23 Stability 8.23.1 Toys intended to bear the mass of a child 8.23.2 Heavy immobile toys 8.24 Determination of kinetic energy 8.24.1 Kinetic energy of projectiles 8.24.2 Kinetic energy of bows and arrows 8.25 Plastic sheeting 8.25.1 Thickness 8.25.2 Adhesion 8.26 Brake performance 8.26.1 Brake performance for certain ride-on toys 8.26.2 Brake performance for toy bicycles 8.26.3 Brake performance for toy scooters 8.27 Strength of toy scooter steering tubes 8.27.1 a) Resistance to downward forces 8.27.2 a) Resistance to upward forces 8.29 Determination of maximum design speed of electrically-driven ride-on toys 8.30 Measurement of temperature rises 8.32 Small balls and suction cups test 8.32.1 Small balls and suction cups 8.32.2 Small balls attached to a toy by a cord



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<p>TOYS and TOY PACKAGING (cont'd)</p>	<p><u>Physical and Mechanical Tests</u> (cont'd)</p>	<p>ASTM F963-08 - Standard Consumer Safety Specification for Toy Safety. For the following clauses and tests: (cont'd)</p> <p>CLAUSES: (cont'd)</p> <p>4.13 Folding mechanisms and hinges 4.13.2 Hinge line clearances 4.14 Cords, straps and elastics 4.14 Stability and over-load requirements 4.14.2 Self retracting pull cords 4.14.3 Pull Toys 4.14.4 Strings and lines for flying devices 4.14.5 Cords on toy bags 4.15.1 Stability of ride-on toys and seats 4.15.2 Sideways stability 4.15.2.1 Sideways stability, feet available 4.15.2.1 Sideways stability, feet unavailable 4.15.3 Fore and aft stability 4.16 Confined spaces 4.16.1 Ventilation 4.16.2 Closures 4.16.3 Toys that enclose the head 4.17 Wheels and axles 4.18.4 Inaccessibility of mechanisms 4.18.5 Winding keys 4.18.6 Coil springs 4.19 Simulated protective devices 4.19.1 Eye protection 4.22 Teethers and teething rings 4.22.3 Exclusion 4.23 Rattles 4.24 Squeeze toys 4.27 Stuffed and beanbag type toys 4.32 Certain toys with spherical ends 4.32.3 Preschool play figures 4.33.3.2 Exclusion 4.34 Balls</p>





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21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**ITS Testing Services (UK) Limited**

**Issue No:** 041    **Issue date:** 16 April 2012

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
TOYS and TOY PACKAGING (cont'd)	<u>Chemical Tests</u>  Migration of the elements: antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium  <u>Electrical Tests</u>  Electrical safety	BS EN 71-3:1995 + A1:2000 EN 71-3:1995 + A1:2000 using ICP MS or ICP OES   BS EN 62115:2005 Excluding clauses: 14.10 16.1 16.3 Annex E
STROLLERS/WHEELED CHILD CONVEYANCES	Mechanical/Safety	BS EN 1888:2003 inc and No 1 and corrigenda Nos 1, 2 & 3
PLASTIC COMPONENTS	Cadmium content   Total phthalates   Toxic Heavy Metals	BS EN 1122:2001:Method B to meet the requirements of REACH Annex XVII (ITEM 23) Supplemented by ToyChem 04 using ICP (OES)  IHTM ToyChem 03, to meet the requirements of REACH Annex XVII (ITEM 51 & 52)  IHTM ToyChem 13 by Microwave Digestion and ICP-OES
TOYS and CHILDREN'S PRODUCTS	Total Lead in Metal Substrates   Total lead in non-metallics (excluding ceramics)	IHTM ToyChem 13 using microwave or wet digestion and ICP-OES to meet requirements of CPSC-CH-E1002-08  IHTM ToyChem 32 using microwave digestion and ICP-OES to meet requirements of CPSC-CH-E1001-08



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Accredited to  
ISO/IEC 17025:2005

**Schedule of Accreditation**  
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TOYS and CHILDREN'S PRODUCTS (cont'd)	Total extractable Phthalates  Small Parts  Lead in paint and similar surface coatings	IHTM ToyChem 37 by THF extraction using GC-MS to meet the requirements of CPSC-CH-E1001-09.2  16 CFR 1501  IHTM ToyChem 29, Issue 2 following CPSC-CH-E1003-09, using Microwave Digestion and ICP –OES To meet the requirements of 16 CFR 1303
BUOYANCY AIDS	Mechanical/safety	BS EN 13138-1:2008 BS EN 13138-2:2007 excluding clause 5.3.4
HOT WATER BOTTLES	Mechanical and Safety tests	BS 1970:2006
TEXTILES	Determination of IRR  Determination of IRR	MOD Method  BS 4560:1990 Appendix D
PROTECTIVE CLOTHING	Colour Measurement  Test methods for High Vis clothing  Chromaticity and Luminance  Determination of colour  High-visibility Safety  Daylight colour and luminance factor	CIE No 15.2 (1986)  BS EN 471 (2003) + A1 (07) excluding clause 6  GO/RT 3279:2008 Issue 6  ANS/ISEA 107:2004 (clause 7 9.2)  CAN/CSA-Z96-02 2004) Apparel clause  AS/NZS 1906.4:1997
	END	