



INTERNATIONAL SAFETY STANDARDS FOR TOYS.

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TOYS ABUSE TEST CONDITIONS COMPARISON FOR INTERNATIONAL TOY SAFETY REQUIREMENTS						
Test	Age (Months)	USA CPSC 16 CFR PART 1500/ ASTM F963-11	Europe EN 71 Part 1	Canada HAZARDOUS PRODUCTS (TOYS) REGULATION SOR/2011-17	Australia AS/NZS ISO 8124 PART 1	Japan ST PART 1
Drop Test	0 to 18	4.5 ft. (1.37 m), 10 drops for all toys weighing less than 3 lbs (1.4 kg)	2.8 ft. (0.85 m), 5 drops for all toys weighing less than 10 lbs (4.5 kg)	4.5 ft. (1.37 m), 4 drops	4.53 ft. (1.38 m), 10 drops for all toys weighing less than 3 lbs (1.4 kg)	4.27 ft. (1.30 m), 10 drops for rattle squeeze toy, pacifiers, teethingers, etc.; for all toys weighing less than 1 lb (0.5 kg) 2.8 ft. (0.85 m), 5 drops for others, for all toys weighing less than 3 lbs (1.4 kg)
	> 18 to 36	3 ft. (0.91 m), 4 drops for all toys weighing less than 4 lbs (1.8 kg)	2.8 ft. (0.85 m), 5 drops for all toys weighing less than 10 lbs (4.5 kg)	4.5 ft. (1.37 m), 4 drops	3.1 ft. (0.93 m), 4 drops for all toys weighing less than 10 lbs (4.5 kg)	2.8 ft. (0.85 m), 5 drops for all toys weighing less than 10 lbs (4.5 kg)
	> 36 to 96	3 ft. (0.91 m), 4 drops for all toys weighing less than 10 lbs (4.5 kg)	—	3 ft. (0.91 m), 4 drops	—	2.8 ft. (0.85 m), 5 drops* up to 14 years, for all toys weighing less than 10 lbs (4.5 kg)
Impact Test	0 to 36	For toys containing magnets: 2.2 lb (1.0 kg)/4.0 in. (101.6 mm)	1 kg mass from 100 mm	—	—	1 kg/100 mm (same as EN 71)
Tip Over Test	0 to 96	3 times	3 times* up to 3 years	—	—	3 times* up to 14 years
	0 to 18	2 in. lbf (0.23 N.m)	0.34 N.m (3 in. lbf)	8.85 in. lbf (1 N.m) for rattles	4 in. lbf (0.45 N.m)	1) Reach 180° or 2) 0.34 N.m (same as EN 71)
Torque Test	> 18 to 36	3 in. lbf (0.34 N.m)	—	—	—	—
	> 36 to 96	4 in. lbf (0.45 N.m)	—	—	—	—
	0 to 18	10 lb (44.5 N)	<ul style="list-style-type: none"> • Dimension < 6 mm, 50 N (11.2 lb) • Dimension > 6 mm, 90 N (20.2 lb) • 70 N (15.7 lb) for seam of soft toy containing small parts of soft filled toys containing fibrous filling • 60 N (13.5 lb) for protective tip • 90 N for suction cups on projectiles 	<ul style="list-style-type: none"> • 10 lb (44.5 N) for all parts excluding eye/nose; • 20 lb (90 N), 5 minutes for eyes/nose pull; • 11.2 lb (50 N) for rattle 	15.7 lb (70 N)	<ul style="list-style-type: none"> • Dimension < 6 mm, 50 N (11.2 lb) • Dimension > 6 mm, 90 N (20.2 lb) • 90 N (20.2 lb) for seam of soft toy • 60 N for protective tip
Tension Test	> 18 to 36	15 lb (66.8 N)	—	—	—	<ul style="list-style-type: none"> • Dimension < 6 mm, 50 N (11.2 lb) • Dimension > 6 mm, 90 N (20.2 lb) • (70 ±2) N for seam (same as EN 71) • 60 N for protective tip
	> 36 to 96	15 lb (66.8 N)	—	—	—	60 N for protective tip
	0 to 18	20 lb (89 N)	110 N (24.7 lb)	—	—	9 kg (19.8 lb), Ø 29 mm; 14 kg force with Ø 28.5 mm disc **
Compression Test	> 18 to 36	25 lb (111.3 N)	—	—	—	110 N, Ø 30 mm; 14 kg force with Ø 28.5 mm disc **
	> 36 to 96	30 lb (133.5 N)	—	—	30.5 lb (136 N)	14 kg force with Ø 28.5 mm disc **
Flexure Test	0 to 18	Bend 30 cycles of 120° at a rate of 1 cycle/2 secs., rest 60 secs. every 10 cycles, 15.7 lb (70 N) bending force	120° at a rate of 1 cycle/sec., rest 60 secs. every 10 cycles, 15.7 lb (70 N) bending force	—	Bend 30 cycles of 120° at a rate of 1 cycle/2 secs., rest 60 secs. every 10 cycles, 15.7 lb (70 N) bending force	Bend 30 cycles of 120° at a rate of 1 cycle/sec., rest 20 secs. every 10 cycles, 44.1 N (4.5 kg) bending force
	> 18 to 96	Bend 30 cycles of 120° at a rate of 1 cycle/2 secs., rest 60 secs. every 10 cycles, 15 lb (67 N) bending force	For wires not designed and intended to be bent: Bend 30 cycles For wires not designed and intended to be bent but likely to occasionally or accidentally be bent: Bend 1 cycle	—	—	Bend 30 cycles of 120° at a rate of 1 cycle/sec., rest 20 secs. every 10 cycles, 66.7 N (6.8 kg) bending force* up to 14 years

* For specific items only; ** For rattle and other toy containing inaccessible metal wire, etc.

SUMMARY OF INTERNATIONAL TOY SAFETY REQUIREMENTS										
Requirement	USA	Europe	Canada	Australia	International	Japan	China	Brazil		
Mechanical & Physical Test	CPSC & ASTM F963-11	EN 71 Part 1 Toy Safety Directive 2009/48/EG	Hazardous Products (Toys) Regulation SOR/2011-17	AS/NZS ISO 8124 Part 1	ISO 8124 Part 1	ST Part 1	<ul style="list-style-type: none"> GB 6675 Appendix A GB 5296.5 	NM 300-1		
Flammability Test (Textile Material/Pile Fabric/Pile Materials)	<ul style="list-style-type: none"> Title 16 CFR Part 1610 ASTM F963-11 A.6 	EN 71 Part 2 Toy Safety Directive 2009/48/EG	Hazardous Products (Toys) Regulation SOR/2011-17	AS/NZS ISO 8124 Part 2	ISO 8124 Part 2	ST Part 2	6675 Appendix B	NM 300-2		
Flammability Test (Solid Material / Toy Products)	<ul style="list-style-type: none"> Title 16 CFR Part 1500.44 ASTM F963-11 A.5 	EN 71 Part 2 Toy Safety Directive 2009/48/EG	Hazardous Products (Toys) Regulation SOR/2011-17	AS/NZS ISO 8124 Part 2	ISO 8124 Part 2	ST Part 2	6675 Appendix B	NM 300-2		
Toxic Element Test (Heavy Metal Analysis)	<ul style="list-style-type: none"> Title 16 CFR Part 1303 Lead in paint ASTM F963-11 (inc A10.10), CPSIA 	EN 71 Part 3 Toy Safety Directive 2009/48/EG	Hazardous Products (Toys) Regulation SOR/2011-17	AS/NZS ISO 8124 Part 3	ISO 8124 Part 3	ST Part 3	<ul style="list-style-type: none"> GB 6675 Appendix C GB 24613 For coating 	NM 300-3		
Cleanliness of Stuffing Material	<ul style="list-style-type: none"> ASTM F963-11, AOAC Ch 16, Pennsylvania Stuffed Toys Act, Massachusetts Law on Stuffed Toys, Ohio Regulations Maine Regulations 	EN 71 Part 1 Toy Safety Directive 2009/48/EG	Hazardous Products (Toys) Regulation SOR/2011-17, The Upholstered & Stuffed Articles Act	AS/NZS ISO 8124 Part 1	ISO 8124 Part 1	ST Part 1	GB 6675 Appendix A	NM 300-1		
Phthalates	CPSIA requires testing for a total of 6 phthalates. CA AB 1108 additionally bans DnHP	Phthalates REACH AnnexVII	Aligned with U.S. CPSIA requirements for 6 phthalates	Consumer Protection Notice No. 6 of 2010 Special Gazette No S 19/2 March 2010 Trade Practices Act 1974 Commonwealth of Australia	—	<ul style="list-style-type: none"> ST Part 3, Japan Food Sanitation Law (JFSL) 	GB 24613 For coating	Ordinance nr. 369 and Micro-biological tests Pharmacopea USP nr. 28/2005		
Azo colourants and Azo Dyes	—	Azo Dyes REACH Annex XVII	—	—	—	—	—	—		
Cadmium	Extraction limit 200 µg for metallic small parts	Cadmium REACH Annex XVII	—	—	—	—	—	—		
Nickel	—	Nickel REACH Annex XVII	—	—	—	—	—	—		
Battery Operated Toy Safety Test	ASTM F963-11 Section 4.25	EN 62115	—	AS/NZS 62115	IEC 62115	ST Part 1	GB 19865	NM 300-6		
Electrically Operated Toys	<ul style="list-style-type: none"> ASTM F963-11 Title 16 CFR 1505 	EN 62115	—	AS/NZS 62115	IEC 62115	—	GB 19865	NM 300-6		
Hazardous Substances in battery operated/electrical toys	—	RoHS II (Directive 2011/65/EU)	—	—	—	—	—	—		
Electromagnetic Compatibility for battery operated/electrical toys	—	EMC Directive 2004/108/EC	ICES Interference-Causing Equipment Standard	Electromagnetic Compatibility (EMC) Regulations, C-Tick Mark	CISPR14 Part 1 & Part2	Voluntary Control Council For Interference by Information Technology Equipment	GB 4343	—		
Radio Controlled Frequency Requirements	FCC Part 15 Radio Frequency Devices	R&TT Directive 1999/5/EC	RSS Radio Standards Specifications	—	—	—	GB 17625/CNCA	—		

Your contact persons

Gerrit Uhe, Sales Manager

T: +49 (0)40 300 33 73 – 59 90

+49 (0)41 81 235 80 99

M: +49 (0)151 54 43 53 61

E: gerrit.uhe@hansecontrol.com

Address

Hermes Hansecontrol

Schleidenstraße 1

D-22083 Hamburg

Test sample acceptance

Access road Lohkoppelstraße

D-22083 Hamburg

Mon.-Thurs. 7⁰⁰ a.m. – 5⁰⁰ p.m.

Fr. 7⁰⁰ a.m. – 4⁰⁰ p.m.

Customer service

Tel.: +49 (0) 40 300 33 73 - 73 10

Fax: +49 (0) 40 300 33 73 - 18 21

e-mail: customer-service@hansecontrol.com

Web: www.hermesworld.com