



Hong Kong Standards and Testing Centre

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Toxic Elements Requirements of Different Countries for Toys and Children's Products

Elements	Australia/New Zealand		Canada		Japan			USA		
	AS/NZS ISO 8124.3		Toys Regulations		Food Sanitation Law	ST Standard Part 3		ASTM F963		
	Any toy material except modeling clay	Modeling clay	Paint & surface coating	Children's jewelry (metal or non-metal)	Paint coating including PVC coating	Coating on toy, ink and the like used for graphic instrument	Children's metallic toys	Paint & similar coating	Substrates of other materials, and metal, glass or ceramic that are small parts	Modeling clays
	mg/kg		%	mg/kg	mg/kg			ppm		
Antimony (Sb)	Sol. 60	Sol. 60	Sol. 0.1	-	-	Sol. 60	-	Sol. 60	Sol. 60	Sol. 60
Arsenic (As)	Sol. 25	Sol. 25	Sol. 0.1	-	Sol. 25	Sol. 25	-	Sol. 25	Sol. 25	Sol. 25
Barium (Ba)	Sol. 1000	Sol. 250	Sol. 0.1	-	-	Sol. 1000	-	Sol. 1000	Sol. 1000	Sol. 250
Cadmium (Cd)	Sol. 75	Sol. 50	Sol. 0.1	-	Sol. 75	Sol. 75	-	Sol. 75	Sol. 75 Sol. 200µg*	Sol. 50
Chromium (Cr)	Sol. 60	Sol. 25	-	-	-	Sol. 60	-	Sol. 60	Sol. 60	Sol. 25
Lead (Pb)	Sol. 90	Sol. 90	Tl. 0.009	Tl. 100 Sol. 90	Sol. 90	Sol. 90	Sol. 90	Tl. 90 [#] Sol. 90	Tl. 100 [#] Sol. 90	Tl. 100 [#] Sol. 90
Mercury (Hg)	Sol. 60	Sol. 25	Tl. 0.001	-	-	Sol. 60	-	Sol. 60	Sol. 60	Sol. 25
Selenium (Se)	Sol. 500	Sol. 500	Sol. 0.1	-	-	Sol. 500	-	Sol. 500	Sol. 500	Sol. 500
Others	-	-	-	-	-	-	-	-	-	-

ppm = parts per million
 Sol. = soluble
 mg/kg = milligram per kilogram
 Tl. = total

Ni = Nickel
 ND = not detected
 Sr = Strontium
 Elu = Elusion

* Total content as limited by CPSIA.



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Toxic Elements Requirements of 2009/48/EC and EN71-3

Element (mg/kg)	Category I : Dry, brittle, powder- like or pliable material	Category II : Liquid or sticky material	Category III : Scraped off material
Aluminium	5625	1406	70000
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	4500	1125	56000
Boron	1200	300	15000
Cadmium	1.3*	0.3*	17*
Chromium (III)	37.5	9.4	460
Chromium (VI)	0.02	0.005	0.2
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	13.5	3.4	160
Manganese	1200	300	15000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic tin	0.9	0.2	12
Zinc	3750	938	46000

*Updated by Commission Directive 2012/7/EU of 2 March 2012.