

## What are EN 71-3 and ASTM F 963-08?

- Both are tests to ensure that products, especially toys meant for children, are safe for commercial sale and consumer use.
- EN 71-3 is the European Union safety standard and ASTM F 963-08 is its US equivalent.
- Toys sold in the US must also comply with the Consumer Product Safety Improvement Act (CPSIA) testing requirements for total lead.
- For total children's testing requirements, please refer to our Consumer Product Safety Information Act (CPSIA) bulletin.

## What is soluble/leachable testing?

- Soluble/leachable testing uses a weak hydrochloric acid solution to simulate the human digestion process.
- The test measures the amount of hazardous substances that could leach from an item into the body in the event of ingestion.
- Currently, there are eight restricted metals: lead (Pb), cadmium (Cd), mercury (Hg), selenium (Se), barium (Ba), arsenic (As), antimony (Sb), and chromium (Cr).

## Table 1 - Materials Required for Testing

- Surface coatings in solid or liquid form
- Polymeric and similar materials
- Paper and board
- Natural and synthetic textiles
- Glass, ceramic, and metallic materials
- Materials such as wood, fiberboard, bone, and leather among others



EN 71-3 and ASTM F 963-08 Element Migration Limits

ELEMENT		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Maximum migrated element in material in mg/kg	All Table 1 materials except for modeling clay	60	25	1000	75	60	90	60	500
	Modeling Clay	60	25	250	50	25	90	25	500

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AT-1404