

Technical Requirement for Environmental Products

The Certificable Technical Requirement for Environmental Labelling Products

Toys for Children

HJBZ 16—1996

1 Scope

This technical requirement specifies definition, basic requirements, technical contents and test method for environmental labelling products of children's toys.

This technical requirement shall apply to toys designed for children younger than 14 years old or the toys apparently for them to play. For playthings no limited by this standard, please see annex A.

2 Standards cited

Provisions in the following standards are cited in this technical requirement, and therefore form the provisions in this standard. They have the same effectiveness as the technical requirement itself.

GB 6675—86 Safety of toys

EN 71 Standard for safety of toys of European Communities

ASTM F963—1995 Standard consumer safety specification on toy safety

ASTM D3421—75 Abstraction and analyse of plasticizer in polyvinyl chloride (PVC)

In case of the criteria above are revised, the latest version should be applied.

3 Definition

3.1 Quality of products shall conform with requirement of relevant product quality standard.

3.2 Safety performance of products should conform with the requirement in GB 6675—86.

3.3 Pollutant emission of the company should be obliged to conform with pollutant emission standards nationally or locally.

4 Technical contents

4.1 Contents of soluble Sb, As, Ba, Cd, Cr, Pb, Hg, Se of parts might be touched of the products should fit into the requirement of the following table.

Limit contents of soluble elements* in material of parts might be touched of toys

Material of toys	Max. allowable concentration of soluble elements per kg material of toys (mg)							
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Materials** (excluding moulding earth, finger colorant)	60	25	500	75	60	90	60	500
Moulding earth and finger colorant	60	25	250	50	25	90	25	500

*Soluble elements: soluble indexes are determined by imitating physiological environment of gastric juice. In this standard, it specifies that the index is soluble contents of listed substances under condition of pH ≤ 1.5 , $(37 \pm 2)^\circ\text{C}$, shaking for 1 h, and another 1 h for standing.

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**Materials are listed below:

- Colorant, varnish, paint, printing ink coating and other similar coating
 - Polymeric material and other similar materials
 - Paper and paper board
 - Textile
 - Heavy colored materials (such as impregnated wood and impregnated cloth)
 - Metal materials
 - Mark materials (such as graphite of pencil and ink of pen)
 - Soft plastic model materials (including plastotype clay) and gel
- 4.2 Lead content in paint and surface coating of products should not be higher than 600mg/kg(coating weight).
- 4.3 Dihexyl phthalate (DEHP) content in products which use PVC as materials should not be higher than 3%.
- 4.4 Plastic outer packing used in products should be degradable plastic packing products.

5 Test

- 5.1 Method specified in part 3 of EN 71 (1994 edition) should be adopted to determine the contents of soluble Sb, As, Ba, Cd, Cr, Pb, Hg, Se in parts might be touched of the products.
- 5.2 Lead content in paint and surface coating of products should be determined by method specified in ASTM F963—1995.
- 5.3 Content of DEHP in products containing PVC materials should be determined by method of ASTM D3421—75.

Annotations:

This technical requirement has been prepared by Department of Science, Technology and Standards of State Environment Protection Administration.

The State Environment Protection Administration keeps the right of interpretation for this technical requirement.

Annex A (annex of the standard)

The following lists what should not apply to the limits of this standard.

- Ornamentation for Christmas day
- Scaling-down model with detail drawing for adult collectors
- Equipments for collective operation
- Sport facilities
- Equipments for using in deep water
- Folk dolls, decorated dolls and similar ones for adult collectors
- Special toys installed in public places (shopping center, station, etc.)
- Intelligence toys without drawing or with more than 500 pieces for experts
- Airgun
- Fireworks and percussion cap, but excluding specially designed percussion cap for toys
- Slinger and launcher
- Facilities with sharp metal spear
- Electronic oven, electric iron or other useful products need >24 V voltage
- Ultimated product with heating components used under guide of adult in process of instruction or training
- Vehicle with internal-combustion
- Toy steam engine
- Bicycle, not including toy bicycles, for example, bicycles with pedestal higher than 635mm
- Video toys whose voltage exceeding 24 V when it was activated and may be connected to TV set
- Rag baby for infants
- Duplicates of light weapon
- Fashion jewelry for children