
Safety of toys —

Part 1:

**Safety aspects related to mechanical and
physical properties**

AMENDMENT 1

iTeh STANDARD PREVIEW

Sécurité des jouets —
(standards.iteh.ai)

*Partie 1: Aspects de sécurité relatifs aux propriétés mécaniques et
physiques*

ISO 8124-1:2000/Amd 1:2007

<https://standards.iteh.ai/en/standards/ISO/8124-1/2000/Amd1/2007/iso-8124-1-2000-amd-1-2007>
AMENDEMENT 1



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 8124-1:2000/Amd 1:2007](https://standards.iteh.ai/catalog/standards/sist/cdafd153-6cec-42cf-9149-c779d3647a9b/iso-8124-1-2000-amd-1-2007)

<https://standards.iteh.ai/catalog/standards/sist/cdafd153-6cec-42cf-9149-c779d3647a9b/iso-8124-1-2000-amd-1-2007>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 8124-1 was prepared by Technical Committee ISO/TC 181, *Safety of toys*.

ISO 8124 consists of the following parts, under the general title *Safety of toys*:

— *Part 1: Safety aspects related to mechanical and physical properties*

— *Part 2: Flammability*

— *Part 3: Migration of certain elements*

ISO 8124-1:2000/Amd 1:2007
<https://standards.iteh.ai/catalog/standards/sist/cd4fd153-6ccc-42cf-9149-c779d564/a9b/iso-8124-1-2000-amd-1-2007>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 8124-1:2000/Amd 1:2007

<https://standards.iteh.ai/catalog/standards/sist/cdafd153-6cec-42cf-9149-c779d3647a9b/iso-8124-1-2000-amd-1-2007>

Safety of toys —

Part 1:

Safety aspects related to mechanical and physical properties

AMENDMENT 1

Foreword

Delete the last paragraph.

Introduction

Delete the 5th and 6th paragraphs and replace the text with:

Annexes A, B, C, D and E are for information purposes only but are crucial for the correct interpretation of this part of ISO 8124.

The safety of electric toys is covered by IEC 62115.

When age indications are required for safety labelling purposes, they may be given in either months or years.

1 Scope

Amend item l) to read:

l) aquatic equipment intended to be used in deep water, swimming-learning devices and floatation aids for children such as swim-seats and swim-aids;

2 Normative references

Amend reference to ISO 4287-2:1997 to read:

ISO 4287:1997, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

3 Terms and definitions

Amend the note (below the heading) to read:

NOTE The requirements in this part of ISO 8124 are applicable to certain age ranges. For interpretation of these age ranges, please see clause E.42 (age-break terminology) of the rationale.

**3.8
cord**

Add a note:

NOTE Doll hair is not considered as a cord.

**3.34
paper**

Amend “maximum areic mass of 400 g/m²” to “maximum mass per unit area of 400 g/m²”

**3.40
protective cap or cover**

Amend the term to “protective cap, protective cover or protective tip”

Add the following new terms and definitions:

**3.55
resilient material**

any material having a hardness less than 70 Shore A scale durometer as measured in accordance with ISO 868

**3.56
squeeze toy**

hand-held pliable toy, usually incorporating a noise-making feature activated by forcing air through an opening when flexed or squeezed and which usually recovers its original shape when released

iTeh STANDARD PREVIEW
(standards.iteh.ai)

4 Requirements

4.3.1 Material quality (see E.4)

[ISO 8124-1:2000/Amd 1:2007](https://standards.iteh.ai/catalog/standards/sist/cdafd153-6ccc-42cf-9149-c779f3647e91/iso-8124-1:2000/AMD1:2007)
<https://standards.iteh.ai/catalog/standards/sist/cdafd153-6ccc-42cf-9149-c779f3647e91/iso-8124-1:2000/AMD1:2007>

Amend “by the unaided eye rather than under magnification” to “by normal corrected vision rather than under magnification”.

4.4.1 (three times) Amend “up to and including 36 months” to “under 36 months”.

For children under 36 months

Add to the bullet list:

- audio and/or video discs which are not themselves small parts

4.4.2 (twice):

Amend “from 37 months up to and including 72 months” to “36 months and over but under 72 months”.

4.5.1 Squeeze toys, rattles and certain other toys

Amend a) and b) to read:

- a) Such toys shall be designed so that no part of the toy protrudes past the base of test template A, when tested in accordance with 5.3.
- b) Such toys with nearly spherical, hemispherical, or circular flared ends shall be designed so that such ends do not protrude past the base of the supplemental test template B when tested in accordance with 5.3.

4.5.2 Amend:

“up to and including 36 months” to “under 36 months”.

“from 37 months up to and including 96 months” to “36 months and over but under 96 months”.

4.5.3 Amend “up to and including 36 months” to “under 36 months”.

4.5.4 Preschool play figures

In 1st paragraph, 1st line, amend “preschool figures to “preschool play figures”.

Amend “up to and including 36 months” to “under 36 months”.

4.5.5 Amend “up to and including 36 months” to “under 36 months”.

4.5.4 Preschool play figures

In 1st paragraph, 1st line, **amend** “preschool figures to “preschool play figures”.

Add the following clause:

4.5.8 Hemispheric-shaped toys (see E.40)

These requirements apply to cup-shaped, bowl-shaped or one-half-of-an-egg-shaped toys having a nearly round, oval or elliptical opening with the dimensions of minor and major axes between 64 mm and 102 mm, a volume of less than 177 ml, a depth greater than 13 mm, and intended for children under 36 months.

The following toys are exempt from these requirements:

- objects intended to hold liquids in products appropriate for children of 24 months and over (e.g. pots and pans);
- containers that must be airtight so the contents can maintain their functional integrity (e.g. modelling clay containers);
- components of larger products that do not become detached when tested in accordance with 5.24 (reasonably foreseeable abuse tests), (e.g. bowl-shaped smoke stack that is permanently attached to a toy train, or a swimming pool that is moulded into a larger toy playscape);
- containers that are part of packaging intended to be discarded once the toy is removed from the packaging.

Cup-shaped, bowl-shaped or one-half-of-an-egg-shaped toys shall, as a minimum, comply with at least one of the requirements in items a), b), c) or d) below:

- a) The object shall have at least two openings that are at least 13 mm from the rim as measured along the outside contour:
 - if the openings are placed in the base of the object, at least two of the openings shall be at least 13 mm apart; see Figure 8 a);
 - if the openings are not placed in the base of the object, at least two of the openings shall be placed at least 30° but not more than 150° apart; see Figure 8 b).
- b) The plane of the opening to the cup shape shall be interrupted at the centre by some type of divider that extends to 6 mm or less from the plane of the opening. An example of an interruption includes a rib through the centre of the opening; see Figure 8 c).

- c) The object shall have three openings located between 6 mm and 13 mm from the rim and at least 100° degrees apart as measured along the outside contour.
- d) The object shall have a repeated scalloped edge pattern around the entire rim. The maximum distance between centerlines of adjacent peaks shall be 25 mm and the minimum depth shall be 6 mm. See Figure 8 d) for examples of scalloped edge patterns.

For the purpose of these requirements, an opening is defined as a hole of any shape with a minimum dimension of 2 mm.

The requirements above apply before and after testing in accordance with 5.24 (reasonably foreseeable abuse test).

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 8124-1:2000/Amd 1:2007](https://standards.iteh.ai/catalog/standards/sist/cdafd153-6cec-42cf-9149-c779d3647a9b/iso-8124-1-2000-amd-1-2007)
<https://standards.iteh.ai/catalog/standards/sist/cdafd153-6cec-42cf-9149-c779d3647a9b/iso-8124-1-2000-amd-1-2007>

Dimensions in millimetres

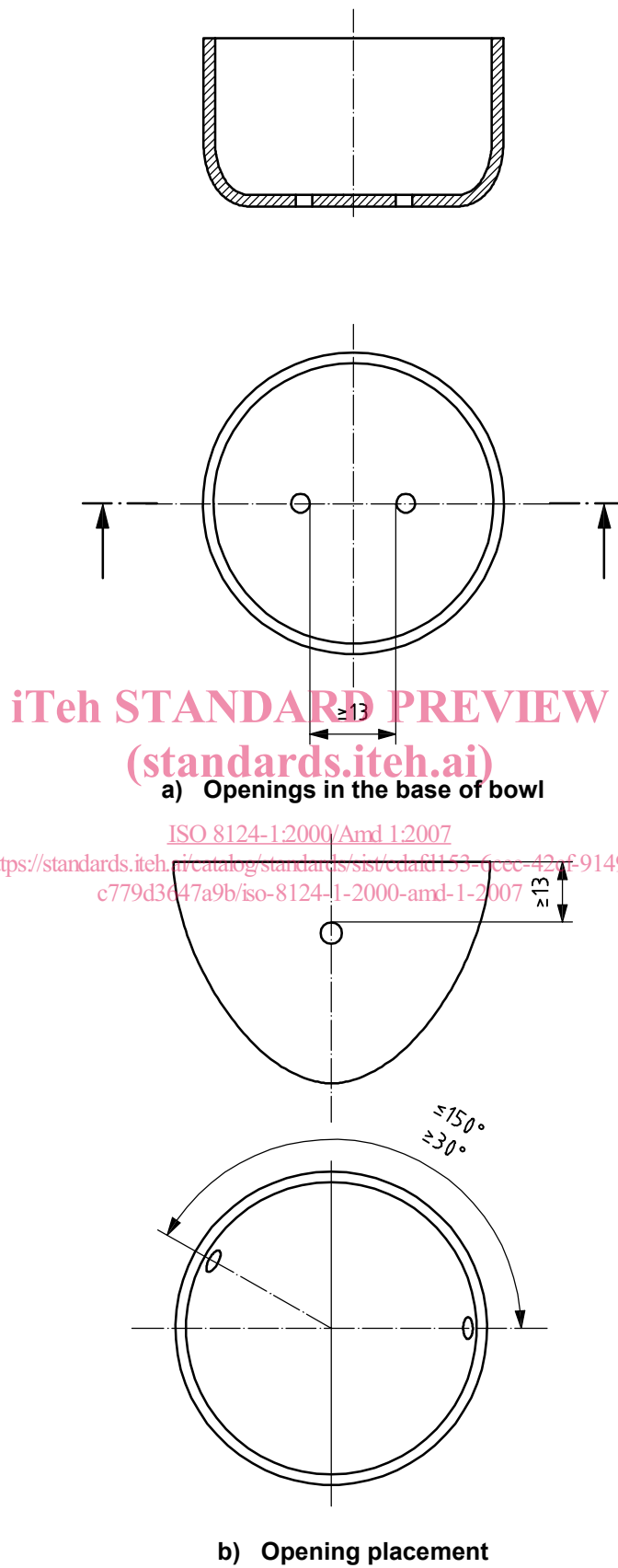


Figure 8 — Examples of hemispheric-shaped toys

4.6.2 Amend:

“up to and including 36 months” to “under 36 months”.

“from 37 months up to and including 96 months” to “36 months and over but under 96 months”.

4.6.3 “under 97 months” to “under 96 months”.

4.6.4 “under 97 months” to “under 96 months”.

4.7.1 Amend:

“up to and including 36 months” to “under 36 months”.

“under 97 months” to “under 96 months”.

4.7.2 Amend:

“up to and including 36 months” to “under 36 months”.

“from 37 months up to and including 96 months” to “36 months and over but under 96 months”.

4.8 Amend to read:**4.8 Protruding parts (see E.13)****4.8.1 Projections**

These requirements are intended to minimize possible puncture hazards to the skin should a child fall on a rigid projection, such as unprotected ends of axles, actuating levers and decorative features.

If a projection presents a potential skin puncture hazard, the projection shall be protected by suitable means, such as turning back the end of a wire, or by affixing a smoothly finished *protective cap or cover*, which effectively increases the surface area for potential contact with the skin. The *protective cap or cover* shall not become detached when tested in accordance with 5.24 (reasonably foreseeable abuse tests).

Toys intended to be repeatedly assembled and taken apart, shall have the individual pieces and fully assembled articles, as shown on packaging graphics, instructions or other advertising evaluated separately.

The requirements for the assembled toy do not apply to toys where the assembling makes up a significant part of the play value of the toy.

Since this requirement relates to hazards arising from a child falling on to a toy, only vertical or nearly vertical projections shall be evaluated. The toy shall be tested in its most onerous position. Corners of structures do not fall under this category.

4.8.2 Handlebars and other tubes

Handlebars shall be equipped with handle-grips with enlarged ends. Ends of other tubes shall be equipped with end-plugs or other means of protection at the end of the tube.

Handle-grips and other protective devices shall not become detached when subjected to a removal force of 70 N.

Amend 4.10 to read: