

SLOVENSKI STANDARD SIST EN 17022:2019

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Izdelki za otroke - Kopalni pripomočki - Varnostne zahteve in preskusne metode

Child care articles - Bathing aids - Safety requirements and test methods

Artikel für Säuglinge und Kleinkinder - Badehilfen - Sicherheitsanforderungen und Prüfverfahren

Articles de puériculture - Aides au bain - Exigences de sécurité et méthodes d'essai (standards.iteh.ai)

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EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

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November 2018

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Child care articles - Bathing aids - Safety requirements and test methods

Articles de puériculture - Aides au bain - Exigences de sécurité et méthodes d'essai

Artikel für Säuglinge und Kleinkinder - Badehilfen -Sicherheitsanforderungen und Prüfverfahren

This European Standard was approved by CEN on 19 October 2018.

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European foreword

This document (EN 17022:2018) has been prepared by Technical Committee CEN/TC 252, "Child care articles", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2019, and conflicting national standards shall be withdrawn at the latest by May 2019.

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

This document has been prepared under Mandate M/464 given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This document specifies safety requirements and test methods for standalone bathing aids intended to be used in a bath tub.

This European Standard does not cover bathing aids designed for children with special needs.

Bathing aids that are intended to be used only in conjunction with a child's bath tub are not covered by this standard.

NOTE 1 Non-standalone bathing aids that are intended to be used only in conjunction with a child's bath tub are covered in EN 17072:2018, *Child care articles - Bath tubs, stands and non-standalone bathing aids — Safety requirements and test methods.*

NOTE 2 Where the product has several functions or can be converted into another function it is due to comply with relevant standard(s).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 71-3, Safety of toys — Part 3: Migration of certain elements

ISO 7619-1, Rubber, vulcanized or thermoplastic—Determination of indentation hardness— Part 1: Durometer method (Shore hardness) tandards.iteh.ai)

3 Terms and definitions

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For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

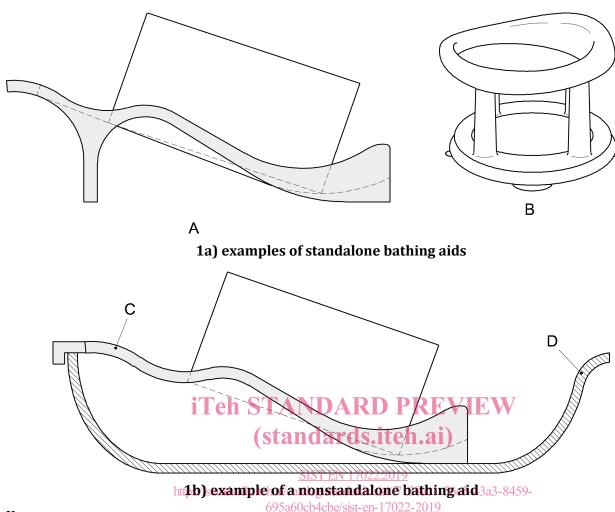
- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

standalone bathing aid

product, that does not provide containment of water by itself and that does not require a child's bath tub to stand

Note 1 to entry: Figure 1a) shows an example of a standalone bathing aid; Figure 1b) shows an example of a non-standalone bathing aid.



Key

A standalone bath cradle

- B standalone bath seat
- C non-standalone bathing aid
- D child's bath tub

Figure 1 — Examples of standalone and non-standalone bathing aids

3.1.1

bath cradle

standalone bathing aid designed to keep a child in a reclined position during bathing

Note 1 to entry: These products are intended for use from birth and until the child is able to sit upright unassisted.

3.1.2

bath seat

standalone bathing aid designed to keep a child in a seated position during bathing

Note 1 to entry: These products are intended for use with a child who is able to sit upright unassisted and until the child begins pulling up to a standing position.

3.2

attachment device

device to secure the product to the bath tub

EXAMPLE Suction cup.

Test equipment

4.1 Test probes for finger entrapment

4.1.1 Test probes with hemispherical end

Probes made from plastic or other hard, smooth material of diameters $\left(7^0_{-0,1}\right)$ mm and $\left(12^{+0,1}_0\right)$ mm with a full hemispherical end that can be mounted on a force-measuring device, see Figure 2.

Mesh probe made from plastic or other hard, smooth material as shown in Figure 3.

Dimensions in millimetres

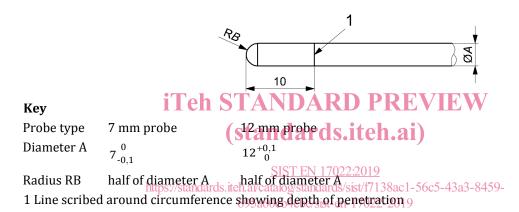
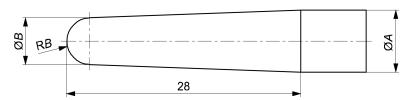


Figure 2 — Test probes with hemispherical end

Dimensions in millimetres



Key

Probe type Mesh probe

Diameter A

Diameter B

 $5,6^{0}_{-0.1}$

Radius RB

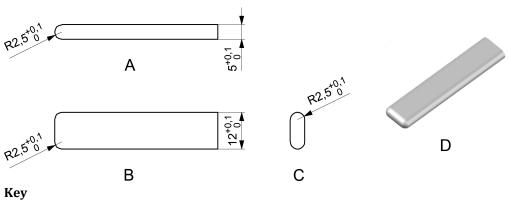
half of diameter B

Figure 3 — Test probe for mesh

4.1.2 Shape assessment probe

Probe made from plastics or other hard, smooth material with the dimensions shown in Figure 4.

Dimensions in millimetres



- A front view
- B top view
- C side view
- D 3D view

Figure 4 — Shape assessment probe **iTeh STANDARD PREVIEW**

4.2 Test masses

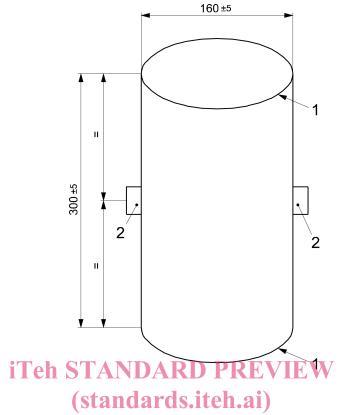
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4.2.1 Test mass A

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A rigid cylinder (160 \pm 5) mm in diameter and (300 \pm 5) mm in height, having a mass of 9 kg and with its centre of gravity in the centre of the cylinder. All edges shall have a radius of (5 \pm 1) mm. Two anchorage points shall be provided. These shall be positioned (150 \pm 2,5) mm from the base and at 180° to each other around the circumference (Figure 5).

Dimensions in millimetres



Key

- 1 radius: (5 ± 1) mm
- 2 anchorage points

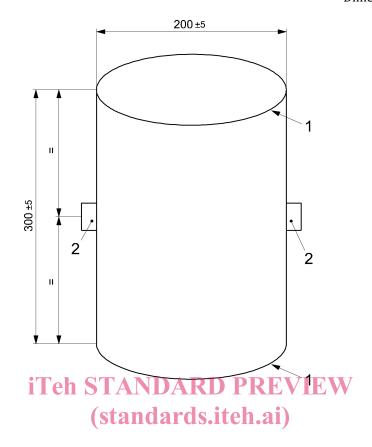
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4.2.2 Test mass B

A rigid cylinder (200 ± 5) mm in diameter and (300 ± 5) mm in height, having a mass of 15 kg and with its centre of gravity in the centre of the cylinder. All edges shall have a radius of (5 ± 1) mm. Two anchorage points shall be provided. These shall be positioned $(150 \pm 2,5)$ mm from the base and at 180° to each other around the circumference (Figure 6).

Dimensions in millimetres



Key

1 radius: (5 ± 1) mm

2 two anchorage points

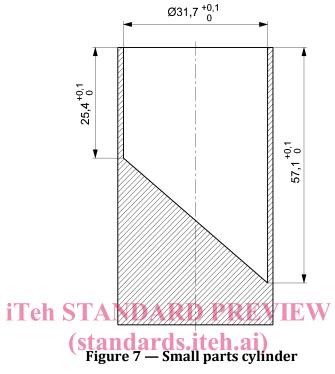
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4.3 Small parts cylinder

Cylinder for the assessment of small components, having dimensions in accordance with Figure 7.

Dimension in millimetres



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4.4 Feeler gauge https://standards.iteh.ai/catalog/standards/sist/f7138ac1-56c5-43a3-8459-695a60cb4cbe/sist-en-17022-2019

Gauge with a thickness of (0.4 ± 0.02) mm and an insertion edge radius of (3 ± 0.5) mm (Figure 8).

Dimensions in millimetres

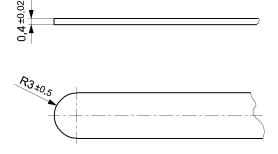


Figure 8 — Feeler gauge

4.5 Test glass surface

A rigid plane covered with uncoated tempered float glass that has a smooth surface and thickness of 6 mm.

4.6 Test surface for drop test

A 4 mm thick steel plate with a 2 mm thick rubber mat, with hardness (75 \pm 10) Shore A according to ISO 7619-1, and which is placed on a non-flexible horizontal surface.