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Standard Consumer Safety Specification for Infant Bath Tubs¹

This standard is issued under the fixed designation F2670; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

INTRODUCTION

This consumer safety specification is intended to address certain incidents associated with the use of infant bath tubs. The U.S. Consumer Product Safety Commission (CPSC) identified drowning incidents which generally involved infant bath tubs being used in adult tubs containing water and left unattended by their caregiver. The CPSC also identified non-fatal incidents related to collapsing of infant bath tubs.

This consumer safety specification is also intended to address certain incidents associated with the use of infant bath tub accessories. The U.S. Consumer Product Safety Commission (CPSC) identified drowning incidents with accessories being used in or on infant bath tubs. The CPSC also identified non-fatal incidents related to collapse and structural failure of infant bath tub accessories.

This consumer safety specification does not address incidents in which infant bath tubs and infant bath tub accessories are unreasonably misused, are used in a careless manner that disregards the warnings and instructions that are provided with each product, or those instances where the caregiver leaves the infant unattended in the product.

This consumer safety specification is written within the current state-of-the-art product technology. It is intended that this consumer safety specification will be updated whenever substantive information becomes available and known to ASTM which necessitates additional requirements or justifies the revision of existing requirements.

1. Scope

1.1 This consumer safety specification establishes performance requirements, test methods, and labeling requirements to promote the safe use of infant bath tubs. It also covers slings, pads, inserts and similar accessories when such accessories are used with the infant bath tub.

1.2 This consumer safety specification is intended to reduce the risk of death and minimize injury to infants resulting from use and reasonably foreseeable abuse of infant bath tubs and infant bath tub accessories.

1.3 No infant bath tub or infant bath tub accessory produced after the approval date of this consumer safety specification shall, either by label or other means, indicate compliance with this specification unless it conforms to all requirements contained herein.

1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical

conversions to SI units that are provided for information only and are not considered standard.

1.5 The following precautionary caveat pertains only to the test methods portion, Section 7, of this consumer safety specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

¹ This consumer safety specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.20 on Bath Seats.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D1683/D1683M Test Method for Failure in Sewn Seams of Woven Fabrics

D3359 Test Methods for Rating Adhesion by Tape Test

F963 Consumer Safety Specification for Toy Safety

2.2 *Federal Standards*:³

16 CFR 1303 Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead Containing Paint

16 CFR 1500 Federal Hazardous Substances Act Regulations

16 CFR 1500.48 Technical Requirements for Determining a Sharp Point in Toys and Other Articles Intended for Use by Children Under 8 Years of Age

16 CFR 1500.49 Technical Requirements for Determining a Sharp Metal or Glass Edge in Toys and Other Articles Intended for Use by Children Under 8 Years of Age

16 CFR 1501 Method for Identifying Toys and Other Articles Intended for Use by Children Under 3 Years of Age Which Present Choking, Aspiration, or Ingestion Hazards Because of Small Parts

Consumer Product Safety Improvement Act

2.3 *ANSI Standard*:

ANSI Z535.4 Standard for Product Safety Signs and Labels

ANSI Z535.6 Product Safety Information in Product Manuals, Instructions, and Other Collateral Materials

3. Terminology

3.1 *Definitions of Terms Specific to This Standard*:

3.1.1 *conspicuous, adj*—visible, when the occupant is in the product and the product is in any manufacturer’s recommended use position(s), to a person standing near the product at any one position around the product, but not necessarily visible from all positions.

3.1.2 *double action release system, n*—a mechanism requiring either two consecutive actions, the first of which must be maintained while the second is carried out, or two separate and independent simultaneous actions to fully release.

3.1.3 *fabric, n*—any woven, knit, coated, laminated, extruded or calendered flexible material that is intended to be assembled using a seam.

3.1.4 *infant bath tub, n*—tub, enclosure, or other similar product intended to hold water and be placed into an adult bath tub, sink, or on top of other surfaces to provide support or containment, or both, for an infant in a reclining, sitting, or standing position during bathing by a caregiver.

3.1.5 *infant bath tub accessory, n*—component or product sold with an infant bath tub or sold separately and that is intended to be attached to or placed on or in an infant bath tub for the purpose of supporting an infant during bathing by an adult caregiver.

3.1.5.1 *Discussion*—Such component or product may also be intended for use separately as a standalone product, but that use mode is not covered by this consumer safety specification. Other components or products not intended to support an infant

while being bathed (for example, soap or towel holder, water pump, shower handle, etc.) are excluded from this definition.

3.1.6 *locking or latching mechanism, n*—method of preventing an infant bath tub from folding or collapsing during use.

3.1.7 *manufacturer’s recommended use position(s), n*—any position that is presented as a normal, allowable, or acceptable configuration for the use of the product by the manufacturer in any descriptive or instructional literature.

3.1.7.1 *Discussion*—This specifically excludes positions which the manufacturer shows in a like manner in its literature to be unacceptable, unsafe, or not recommended.

3.1.8 *nonpaper label, n*—any label material, such as plastic or metal, that either will not tear without the aid of tools or tears leaving a sharply defined edge or labels made of fabric.

3.1.9 *occupant, n*—infant that is in an infant bath tub or an infant bath tub accessory in any manufacturer’s recommended use position(s).

3.1.10 *paper label, n*—any label material that tears without the aid of tools and leaves a fibrous edge.

3.1.11 *principal display panel, n*—that part of the product’s package that is most likely to be displayed, presented, shown or examined under normal or customary conditions of display for retail sale.

3.1.12 *product, n*—when used in this standard, means that requirements apply to both an infant bath tub and an infant bath tub accessory.

3.1.13 *protective component, n*—any component used for protection from sharp edges, points, or entrapment of fingers or toes.

3.1.13.1 *Discussion*—Examples of protective components include caps, sleeves, and plugs.

3.1.14 *seam, n*—means of joining fabric components such as sewing, welding, heat sealing, or gluing.

3.1.15 *smooth test surface, n*—any rigid plastic, metal, or porcelain surface to which the suction cups can adhere, and that is at least 2 in. (51 mm) larger in all directions than the largest dimensions of the suction cup attachment device on the infant bath tub.

3.1.16 *static load, n*—vertically downward load applied by weights or other means.

4. Calibration and Standardization

4.1 Unless otherwise noted, the product shall be completely assembled in accordance with the manufacturer’s instructions.

4.2 The product to be tested shall be in a room with an ambient temperature of 73 ± 9°F (23 ± 5°C) for at least 1 h prior to testing. Testing then shall be conducted within this temperature range.

4.3 All testing required by this consumer safety specification shall be conducted on the same product sample, unless otherwise specified.

5. General Requirements

5.1 *Hazardous Sharp Edges or Points*—There shall be no hazardous sharp points or edges as defined in 16 CFR 1500.48

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

and 16 CFR 1500.49 before or after the product has been tested to this consumer safety specification.

5.2 Small Parts—There shall be no small parts as defined in 16 CFR 1501 before testing or liberated as a result of testing to this consumer safety specification.

5.3 Lead in Paints—All paint and surface coatings on the product shall comply with the requirements of 16 CFR 1303.

5.4 Resistance to Collapse:

5.4.1 When the product is placed in any manufacturer's recommended use position(s), latching and locking mechanisms designed to prevent the unintentional collapse of the product with the infant in it shall comply with either **5.4.1.1** or **5.4.1.2**.

NOTE 1—An attachment (such as a hook) where the weight of the child maintains the engagement is not considered a latching and locking mechanism.

5.4.1.1 Product shall be designed with a single action mechanism that shall not release when tested in accordance with **7.1.1**.

5.4.1.2 Product shall be designed with a double action release system. There are no force requirements for a double action release system.

5.4.2 During and upon completion of the test in accordance with **7.4**, the infant bath tub shall remain in the manufacturer's recommended use position(s), and the latching and locking mechanism(s) shall remain engaged and operative after testing.

5.4.3 During and upon completion of the test in accordance with **7.4.1**, **7.6.1**, and **7.6.2**, the infant bath tub accessory shall remain in the manufacturer's recommended use position(s), and the latching and locking mechanism(s) shall remain engaged and operative after testing.

5.4.4 Latching and locking mechanism(s) shall also comply with the requirements of this section after cycling has been conducted in accordance with **7.1.2**.

5.5 Scissoring, Shearing, and Pinching—The product, when in the manufacturer's recommended use position(s), shall be designed and constructed to prevent injury to the occupant from any scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury exists when the edges of the rigid parts admit a probe greater than 0.210 in. (5.33 mm) and less than 0.375 in. (9.53 mm) at any accessible point throughout the range of motion of such parts.

5.6 Openings—Holes or slots that extend entirely through a wall section of any rigid material less than 0.375 in. (9.53 mm) thick and admit a 0.210-in. (5.33 mm) diameter rod shall also admit a 0.375 in. (9.53 mm) diameter rod. Holes or slots that are between 0.210 in. (5.33 mm) and 0.375 in. (9.53 mm) and have a wall thickness less than 0.375 in. (9.53 mm) but are limited in depth to 0.375 in. (9.53 mm) maximum by another rigid surface shall be permissible (see **Fig. 1** for examples). The product shall be evaluated in all manufacturer's recommended use positions.

5.7 Protective Components—If the child can grasp any protective components between the thumb and forefinger, or

teeth, or if there is at least a 0.04 in. (1.0 mm) gap between the component and its adjacent parent component when the infant bath tub with and without any accessories (if applicable) is in its manufacturer's recommended use position(s), such component shall not be removed when tested in accordance with **7.2**.

5.8 Requirements for Toys—Toy accessories attached to, removable from, or sold with either infant bath tubs or infant bath tub accessories, or both, as well as their means of attachment, shall meet applicable requirements of Consumer Safety Specification **F963**.

5.9 Labeling:

5.9.1 Warning labels, whether paper or nonpaper, shall be permanent when tested in accordance with **7.3.1 – 7.3.4**.

5.9.2 Warning statements applied directly onto the surface of the product by hot stamping, heat transfer, printing, wood burning, etc. shall be permanent when tested in accordance with **7.3.1** and **7.3.5**.

5.9.3 Nonpaper labels shall not liberate small parts when tested in accordance with **7.3.6**.

5.10 Compliance of Multi-use Products—For an infant bath tub accessory that is also intended to be used separately as a standalone product covered under the scope of another ASTM or other standard, it shall also comply with the applicable requirements of that standard.

5.11 Infant bath tubs and infant bath tub accessories must comply with the applicable requirements of the Consumer Product Safety Improvement Act.

6. Performance Requirements

6.1 Restraint System—Products may have a permanent or removable passive crotch restraint as part of their design. They shall not have any additional restraint system(s) which requires action on the part of the caregiver to secure or release the restraint.

6.2 Static Load—The infant bath tub shall not break, become permanently deformed or damaged, or fail to comply with any of the other requirements of this consumer safety specification when tested in accordance with **7.4**.

6.3 Specific Requirements for Suction Cups—Infant bath tubs that utilize individual suction cups as a method of attachment to a surface shall comply with the following requirements:

6.3.1 Each suction cup shall remain attached to the product and shall not become damaged or broken after testing in accordance with **7.5.1**.

6.3.2 The product shall remain attached to the test surface and shall not become damaged or broken after testing in accordance with **7.5.2**.

6.4 Structural Integrity/Attachment of Infant Bath Tub Accessories:

6.4.1 Tests required in this section for static and dynamic load shall be conducted in the sequence listed and using the same tub sample as in **6.2**, unless the tub sample is damaged beyond use during testing, in which case a new tub sample shall be used to complete the testing.