

## Latest Revision of US Toy Safety Standard ASTM F963-16

Standard Consumer Safety Specification for Toy Safety ASTM F963-16, a revision to ASTM F963-11, was published on October 20, 2016

It is mandatory for all toys sold in or imported into the U.S. comply with ASTM F963. Under the Consumer Product Safety Improvement Act (CPSIA), ASTM F963-16 shall become mandatory within 180 days of publication unless it is rejected by the US CPSC (Consumer Product Safety Commission) within 90 days.

### Summary of the major changes to ASTM F963

#### Microbiological Safety

- Microbiological requirements for water were revised
- Cleanliness testing for feather products was included
- CTFA Microbiological Guidelines was added as an alternative test protocol for microbiological cleanliness testing and microbial challenge testing

#### Projectile Toys

➤ Projectiles	➤ Allowable projectile KED was changed to 2500 J/m <sup>2</sup>
➤ Suction Cup Projectiles	➤ 57mm length requirement was added
➤ Mouth-actuated Projectile	➤ Additional requirements were added to address the potential choking hazards
➤ Rigid Projectiles	➤ Gauge was used for leading edge radius measurements

#### Expanding Materials

- New requirement was added for toys that expand in water
- Test method was added

#### Magnets

- Soaking and compression tests were added
- Tests methods tolerance was added
- Labeling requirement was revised

#### Toy Chests

- Reinstatement of requirements were returned to ASTM F963 from ASTM F834
- Instructional labeling was added
- Producer's markings were added
- Tests for toy chest lids and closures were added

#### Ride-On Toys

- New curb impact requirement was added
- Overload requirement of ride-on toys and toy seats was modified to address multiple users
- Stability requirements were clarified
- Cords, straps and elastic requirement was exempted from straps used for waist restraints

Heavy Metal

- ✦ Requirements related to stickers and printed textiles were clarified
- ✦ Metal components with total cadmium content less than 75 ppm were not required for metal extraction test
- ✦ HDXRF for homogeneous polymeric materials was added as an alternative test

Batteries and Battery Operated Toys

✦ Lithium Chemical Batteries	✦ Requirements for temperature and current were added
✦ Secondary Cells or Batteries	New tests were added: <ul style="list-style-type: none"> <li>✦ Pre-conditioning</li> <li>✦ Battery overcharge test</li> <li>✦ Repetitive overcharge test</li> <li>✦ Single fault charging test</li> <li>✦ Short circuit protection test</li> </ul>
✦ Coin and Button Cell Batteries	✦ Labeling requirements were added
✦ Battery Operated Toy	✦ Instructional labeling was slightly revised
✦ Battery-Powered Ride-On Toys	✦ Low power circuit determination was revised

Acoustics

- ✦ New tests were added to more closely align with EN-71 and ISO8124
- ✦ Definitions for push/pull toys were added

Miscellaneous

✦ Stuffing Material	✦ State requirements were removed and the test method was changed
	✦ The stuffing materials evaluation was revised to use a stereo wide field microscope
✦ Squeeze Toys	✦ The requirements for squeeze toys were only applied to the portion of toy which has squeeze function

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