



## EU Amendments of Food Contact Plastic

The (EU) No. 2016/1416 was issued in August 24th and has been effective since 2016 September 14th. This regulation in accordance with the relevant food contact plastic materials is the revision and correction of (EU)10/2011. There is a new requirement of aluminium in specific migration of heavy elements in Annex II, also zinc limit has been strengthened in the same annex. The two parts from the formal entry will put into force on 14 September, 2018.

The limits of heavy metals are changed in Annex I and II as following table:

Substances	Limit mg/kg before amendment	Limit mg/kg after amendment
Manganese (Mn)	0.6	0.6
Barium (Ba)	1	1
Cobalt (Co)	0.05	0.05
Copper (Cu)	5	5
Iron (Fe)	48	48
Lithium (Li)	0.6	0.6
Zinc (Zn)	25	5
Aluminium (Al)	N.A.	1

Apart from the limits of heavy metals, major amendments include:

- > If it is not technically feasible to perform migration tests using food simulant D2 (vegetable oil), 95% ethanol and isooctane can be used as substitution.
- > Sealing cover and the sealing ring products, remove the mg/dm<sup>2</sup> the transfer of limited unit to ensure the consistent results by measuring same unit and same method.
- > Food simulants have been assigned for migration tests for “Fruit, fresh or chilled” (04.01) and “Vegetables, fresh or chilled” (04.04) in Table 2 (effective from 14 September, 2018).

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## US Toy Standard ASTM F963 -16

The updated version of ASTM F963 (ASTM F963-16) was published on the 20<sup>th</sup> of October, 2016. The US Consumer Products Safety Commission made the CPSC ASTM (F963-11 version) mandatory on the 12<sup>th</sup> of June 2012. Under the Consumer Products Safety Improvement Act (CPSIA), the ASTM F963-2016 version becomes mandatory within 180 days of publication, unless it is rejected by the US CPSC within 90 days.

### Revision:

Heavy Metal	<ul style="list-style-type: none"> <li>&gt; Homogeneous polymeric materials are another alternative metal test method HD-XRF</li> <li>&gt; Clarified heavy metal requirements for printed textiles and stickers</li> <li>&gt; Clarified that if the result of metal part is &lt;75 ppm, the metal extraction test is not required</li> </ul>
Microbiological	<ul style="list-style-type: none"> <li>&gt; Microbial requirements for water are clarified</li> <li>&gt; Feather products are included in cleanliness testing</li> <li>&gt; CTFA Microbiology Guidelines and Specifications for microbial testing are added</li> </ul>
Stuffing materials	AOAC and Pennsylvania stuffed toy method were removed; New method was added (visual check with 10 X magnification stereo wide-field microscope)
Acoustics	<ul style="list-style-type: none"> <li>&gt; New Exemption: sounds produced by toys that reproduce or alter the child's voice such as walkie-talkies, recording devices, megaphones, kazoos, etc</li> <li>&gt; Revised: The C-weighted peak sound pressure level, LCpeak, produced by close to the ear toys shall not exceed 110 dB</li> <li>&gt; The measurement method much closely aligns with EN 71-1 and ISO 8124-1</li> </ul>
Mouth-actuated	Add new requirement - projectile toys in which the projectile is launched by blowing into the discharge mechanism
Cords, Straps, and Elastics	Straps used for waist restraints on ride-on toys are exempt from the free length and loop requirements of Cords, Straps, and Elastics section
Stability of Ride-On Toys and Toy Seats	<ul style="list-style-type: none"> <li>&gt; Align with EN 71-1</li> <li>&gt; Clarification for the purposes of this requirement, multiple wheels centered on the same axle or axis with a spacing of 5.9 in. (150 mm) or less between the centres of the outermost wheels are considered to be a single wheel</li> </ul>
Projectile toy	Closely align with EN 71-1, ISO 8124-1 and AS/NZS 8124-1
Squeeze toys	Only apply to the portion of the toy which has the squeeze function
Battery operated toy	New definition of primary cell and secondary battery. New requirement for Secondary cell and Lithium chemistry cells
Magnet	Closely align with EN 71-1 and ISO 8124-1 requirements. Soaking test was added for wooden toys, toys intended to be used in water and mouth-actuated toys with magnets or magnetic components
Expanding materials	Is a new test and closely aligns with EN 71-1 with some additional requirements
Toy chest	This requirement restored (ASTM F834-Safety Specification for Toy Chests has been withdrawn)
Labeling	There is new button/coin cell battery labeling requirement
Battery ride-on toy	Low power circuit determination was added
Toys contains secondary cells/ Batteries	4 new tests were added (Preconditioning, battery overcharge test, repetitive overcharge test, single fault charging test, short circuit protection test)
Overload of Ride-On Toys and Toy Seats	Clearly define the test load of single user and address the situation of multiple users

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