



## ASTM F2923 updated to version 2020

In March 2020, ASTM published Standard Specification for Consumer Product Safety for Children's Jewelry ASTM F2923-20. Compared with the previous version of ASTM F2923-14, the main changes are summarized as follows:

- The content and layout of the new standard clauses have changed;
- ASTM F963-11 was mentioned in the old version of ASTM F2923-14 is updated to ASTM F963 (the latest version);
- The limit of cadmium content is reduced from 300 ppm to 75 ppm;
- Newly added 8 phthalates (DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, and DCHP) requirements for Plasticized materials of accessible parts, the limit shall not exceed 1000 ppm;
- Update and add test methods and delete alternative test methods.



The comparison between ASTM F2923-14 and ASTM F2923-20 is as follows:

Section	Title	ASTM F2923-14	ASTM F2923-20
3	Terminology	The definition and requirements of hazardous magnets should meet the requirements of ASTM F963-11.	The definition and requirements of hazardous magnets should meet the requirements of ASTM F963 (the latest version).
4	Age-Labeling	No change.	
5	Specification for Lead in Children's Jewelry	---	Newly added lead test method: CPSC-CH-E1001-08.3; CPSC-CH-E1002-08.3.
6	Exclusions from Lead Content Testing Requirements in Children's Jewelry	No change.	
7	Specification for Children's Body-piercing Jewelry	No change.	
8	Specification for Antimony, Arsenic, Barium, Cadmium, Chromium, Mercury, and Selenium in Paint and Surface Coatings of Children's Jewelry	1. It is allowed to use alternative test methods in accordance with Annex A2; 2. Test method for soluble heavy metals: ASTM F963-11.	1. Alternative test methods not specified in the standard are not allowed to be used; 2. Test method for soluble heavy metals: ASTM F963 (the latest version).
9	Specification for Cadmium in Certain Substrate Materials of Children's Jewelry	1. The total cadmium content shall not exceed 300 ppm; 2. Alternative test methods in accordance with Annex A2 are permitted.	1. The total cadmium content requirement is reduced from 300 ppm to 75ppm; 2. Alternative test methods not specified in the standard are not allowed.
10	Specification for Nickel in Metal Components of	Nickel release test method: EN 1811:2011;	Nickel release test method: EN 1811:2011+A1:2015;



	Children's Jewelry	CR 12741:2002; EN 12472:2009.	CR 12741:2002; EN 12472:2005+A1:2009.
11	Specification for Phthalates in Plasticized Components of Children's Jewelry	---	Newly added 8 phthalates (DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, and DCHP) requirements for Plasticized materials of accessible parts, the limit shall not exceed 1000 ppm; Test method: CPSC-CHC1001-09.4.
12	Liquid Filled Jewelry Requirements	Screening according to ASTM F963-11.	Screening according to ASTM F963 (the latest version).
13	Mechanical Requirements for Children's Jewelry	No change.	
14	Test Methods	ASTM F963-11.	ASTM F963 (the latest version).
15	Keywords	No change.	
ANNEX	ANNEX A2	Allow the use of Annex A2 alternative test methods.	Delete the alternative test method in Annex A2.

Original link: <https://www.astm.org/Standards/F2923.htm>

## HCT SOLUTION :

The most important update of the children's jewelry safety standards in the United States is the reduction of the cadmium limit requirements and the newly added phthalate requirements. Relevant enterprises should strengthen the monitoring of cadmium and phthalate and adopt the standard approved test method is used for testing to avoid deviation of results due to different test methods.

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