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Date: ~~ISO/DTR 8124-9~~

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Safety of toys —

Part 9: Safety aspects related to mechanical and physical properties — Comparison of ISO 8124-1, EN 71-1 and ASTM F963

Sécurité des jouets —

Partie 9: Aspects de sécurité relatifs aux propriétés mécaniques et physiques — Comparaison entre l'ISO 8124-1, l'EN 71-1 et l'ASTM F963

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Published in Switzerland

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~~The committee responsible for~~ This document ~~is was prepared by~~ Technical Committee ISO/TC 181, *Safety of toys*.

This third edition cancels and replaces the second edition (ISO/TR 8124-9:2020), which has been technically revised. The main changes ~~to the previous edition~~ are as follows:

Clause	Change
1 Clause 1	Modified the standards "ISO 8124-1:2018, EN 71-1:2014+A1:2018 and ASTM F963-17" to "ISO 8124-1:2022, EN 71-1:2014+A1:2018 and ASTM F963-23".
5.1 5.1	Modified Table 3 Table 3, "Defined terms", update the order and numbering of the definition .
5.2 5.2	Modified 5.2.3 "Ball", 5.2.15 5.2, "Analysis of the main differences between the terms "Protective cap, cover or tip" and 5.2.16 "Pull or push toy" . Added 5.2.18 "Removable component" and 5.2.20 definitions "Tabletop, floor, or crib toy".
6.3 6.3	Modified Table 27, "Parameters for reasonably foreseeable abuse tests", updated the parameters for torque test and Tension test . Modified Table 28 Table 28, "impact medium specifications for the drop test", deleted the hardness requirement in ISO 8124-1 . Added 6.3 " comparison of tension test method of ISO 8124-1, EN 71-1 and ASTM F963.
6.4 6.4	Modified 6.4.3 Modified Clause 6.4.2, updated the expanding materials requirements of ISO 8124-1 .
6.5 6.5	Modified Table 36 Modified Clause 6.5.3, "Small parts exemptions", indicated that small parts exemption does not include removable components such as pen caps in ISO 8124-1.

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Clause	Change
6.12 6.12	Modified Table 55 Modified Table 56, Table 57, "Plastic film thickness measurement gauge comparison", updated the diameter of measuring surface and compression force of plastic film thickness measurement gauge in ISO 8124-1.
6.13 6.13	Modified Table 64 Modified Table 67, "Test methods and equipment used for testing of fixed loops, nooses and tangled loops", updated the figure of head probe for cords and elastics in ASTM F963.
6.16 6.16	Modified Table 73 "Differences of the test method for stability testing", updated the scope of stability testing in EN 71-1 and exemption of stability testing in ASTM F963. Modified Table 77 Modified Table 72, Table 73, "Differences in test methods for dynamic strength test", updated test method of dynamic strength test.
6.17 6.17	Modified 6.17.2 6.17.2 "Ventilation", added options to ventilation requirements in ISO 8124-1 and ASTM F963.
6.19 6.19	Modified Table 86 Modified Table 86, "Differences of requirements for description and dimensions of the improvised projectiles", deleted temperature and humidity requirement for storage of improvised projectiles in ASTM F963.
6.21 6.21	Modified Table 95 Modified 6.21 d), Table 95, "Differences in warnings for aquatic toys", updated content and location of warnings.
6.23 6.23	Modified 6.23.2 6.23.2 "Braking system", added the operating position of the braking systems.
6.24 6.24	Modified Table 101 Modified Table 101, "Comparison of the test to determine the maximum design speed of electrically driven ride-on toys". Added new speed limitations for electrically driven ride-on toys in ISO 8124-1.
6.25 6.25	Modified 6.29 Modified Table 105, "Percussion caps", added the warning that only use percussion caps recommended by the manufacturer in EN 71-1.
6.27 6.27	Modified Table 113 "Comparison of the acoustic requirements", added relevant toy categories in accordance with updates to reference standards. Modified Table 114 Modified 6.27 a), b), c) "Measurement parameter", added relevant toy types in accordance with updates to reference standards.
6.29 6.29	Added 6.38 Modified 6.29 "Percussion caps", Table 111, "Functional toys".
6.30 6.30	Modified 6.39 Modified Table 113, Table 114, "Toys intended to come into contact with food", added requirements for toys intended to come into contact with food in ISO 8124-1 and ASTM F963.
6.38 6.38	Added 6.40 6.38 "Functional", "Inflatable toys".
6.39 6.39	Modified Table A.1 6.39 "Toys intended to come into contact with food", "Index of requirements by EN 71-1".
6.40 6.40	Modified Table B.1 Added 6.40 "Inflatable toys", "Index of requirements by ASTM F963-23".
Annex A Annex A	Modified Table A.1, "Index of requirements by EN 71-1". Modified the standards "ISO 8124-1:2018, EN 71-1:2014+A1:2018 and ASTM F963-17" to "ISO 8124-1:2022, EN 71-1:2014+A1:2018 and ASTM F963-23".
Annex B Annex B	Modified Table 3 Table B.1 , "Index, "Defined terms", updated the order and numbering of requirements by ASTM F963", the definition
NOTE The technical changes referred to above include the significant technical changes from the revised document, but this is not an exhaustive list of all modifications from the previous version.	

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