
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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Contents

Page

Foreword	vii
Introduction	viii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Comparison of scopes	1
5 Comparison of terms and definitions	5
5.1 General	5
5.2 Analysis of the main differences between the terms and definitions	8
5.2.1 Aquatic toy	8
5.2.2 Asphyxiation and choking	9
5.2.3 Ball	9
5.2.4 Close-to-the-ear toy	9
5.2.5 Cord	10
5.2.6 Elastic	10
5.2.7 Hand-held toy	11
5.2.8 Hazard	11
5.2.9 Large and bulky toy	11
5.2.10 Marble	12
5.2.11 Paper	12
5.2.12 Pompom	13
5.2.13 Projectile	13
5.2.14 Projectile toy with stored energy	14
5.2.15 Protective cap, protective cover or protective tip	14
5.2.16 Pull or push toy	15
5.2.17 Rattle	15
5.2.18 Toy scooter	16
5.2.19 Squeeze toy	16
6 Comparison of requirements	17
6.1 General	17
6.2 Normal use	17
6.3 Reasonably foreseeable abuse	18
6.4 Material	22
6.4.1 Fillings	23
6.4.2 Expanding materials	23
6.4.3 Glass and porcelain	24
6.5 Small parts	25
6.5.1 General	25
6.5.2 Small parts exemptions	25
6.5.3 Test methods	26
6.6 Shape, size and strength of certain toys	27
6.6.1 General	27
6.6.2 Squeeze toys, rattles and certain other toys	28
6.6.3 Small balls	29
6.6.4 Pompoms	30
6.6.5 Toy pacifiers	30
6.6.6 Balloons	30
6.6.7 Marbles	30
6.6.8 Hemispheric-shaped toys	31
6.6.9 Suction cups	32
6.6.10 Test templates	32
6.7 Edges	33

6.7.1	General	33
6.7.2	Age range for application of the functional sharp edge exemption	34
6.7.3	Toys assembled by adults	34
6.7.4	Test method	34
6.8	Points	35
6.8.1	General	35
6.8.2	Age range for application of the functional sharp point exemption	36
6.8.3	Electrical conductors	36
6.8.4	Examples of accessible, potentially hazardous sharp points	36
6.8.5	Test method	36
6.9	Projections	36
6.9.1	General	36
6.9.2	Ends of rigid handlebars	37
6.9.3	Age grade	37
6.9.4	Bath toy projections	37
6.9.5	Protective components	37
6.10	Metal wires and rods	37
6.10.1	General	37
6.10.2	Scope of the metal wires and rods flexure test	38
6.10.3	Metal wire flexure test methods	38
6.11	Plastic film or plastic bags in packaging and in toys	39
6.11.1	General	39
6.11.2	Scope of plastic film or plastic bags in packaging and in toys	39
6.11.3	Minimum sheet thickness	39
6.11.4	Thickness of plastic balloons	40
6.11.5	Detached plastic sheeting	40
6.11.6	Perforated plastic film	40
6.11.7	Determination of plastic sheet area	40
6.12	Cords	40
6.12.1	General	40
6.12.2	Length of cords, loops, nooses and tangled loops	42
6.12.3	Diameter of certain cords intended for children under 36 months	46
6.12.4	Self-retracting cords	46
6.12.5	Toys attached to or intended to be strung across, or otherwise attached to a cradle, cot, perambulator or carriage	47
6.12.6	Cords on pull toys	48
6.12.7	Cords on toy bags	48
6.12.8	Cords, strings and lines for flying toys	49
6.12.9	Electrical cables	49
6.12.10	Cord warning	50
6.12.11	Test methods and equipment	50
6.12.12	Toy disguise costumes	52
6.13	Folding mechanisms	52
6.13.1	General	52
6.13.2	Hinge line clearance	53
6.13.3	Toy pushchairs, perambulators and similar toys	54
6.13.4	Requirement for folding devices having a scissor-like action	56
6.14	Holes, clearances and accessibility of mechanisms	56
6.14.1	General	56
6.14.2	Holes, clearances and accessibility of mechanisms	56
6.14.3	Accessible clearances for moveable segments	56
6.14.4	Chains or belts in ride-on toys	57
6.14.5	Other driving mechanisms	57
6.14.6	Winding keys	57
6.14.7	Toy bicycles and tricycles provided with a handle that can be used for pushing the child	57
6.15	Springs	58
6.16	Stability and overload requirements	58

6.16.1	Stability requirements for ride-on toys and seats	58
6.16.2	Overload requirements for ride-on toys and seats	62
6.16.3	Stability of stationary floor toys	64
6.17	Enclosures	65
6.17.1	General	65
6.17.2	Impermeable material	65
6.17.3	Ventilation	66
6.17.4	Closures	66
6.17.5	Toy chests safety labelling	66
6.18	Simulated protective equipment, such as helmets, hats and goggles	67
6.19	Projectile toys	67
6.19.1	General	67
6.19.2	General requirements of projectiles	69
6.19.3	Projectile range	69
6.19.4	Impact surface	69
6.19.5	Discharge mechanism	71
6.19.6	Kinetic energy and warning	74
6.19.7	Toy catapults and projectiles propelled by an elastic band and projectile toys without stored energy where the discharge mechanism can store energy, only when held in place by the user	75
6.19.8	Dart	75
6.19.9	Mouth-actuated projectile toys	76
6.19.10	Test method	76
6.20	Rotors and propellers	76
6.20.1	General	76
6.20.2	Scope and exemption	77
6.20.3	Leading part(s) on rigid parts of flying toys	77
6.20.4	Examples of designs to minimize the risk potential of rotating blades	77
6.20.5	Rotor or propeller warning	78
6.20.6	Rotors and propellers on remote controlled flying toys	79
6.21	Aquatic toys	79
6.22	Braking	80
6.22.1	General	80
6.22.2	Braking device — exemptions	81
6.22.3	Braking device – requirements	81
6.22.4	Free-wheeling facility	81
6.22.5	Brake performance test	81
6.23	Toy bicycles	82
6.23.1	General	82
6.23.2	Braking system	82
6.23.3	Warning	83
6.24	Speed limitation of electrically driven ride-on toys	83
6.24.1	General	83
6.24.2	Seat requirements	83
6.24.3	Determination of maximum design speed of electrically driven ride-on toys	83
6.25	Toys containing a heat source	85
6.25.1	General	85
6.25.2	Exemption for toys containing a heat source	85
6.25.3	Scope of toys containing a heat source	85
6.25.4	Temperature rise for heat sources	85
6.25.5	Test environment for toys containing a heat source	86
6.26	Liquid-filled toys	86
6.27	Mouth-actuated toys	86
6.28	Toy roller skates, toy inline skates and toy skateboards	87
6.29	Percussion caps	87
6.30	Acoustic requirements	88
6.30.1	General	88
6.30.2	Scope for the acoustic	88

6.30.3	Category of acoustic toys	89
6.30.4	Rattles	89
6.30.5	Comparison of the acoustic requirements	89
6.30.6	Test method	89
6.31	Toy scooters	91
6.31.1	General	91
6.31.2	Comparison of toy scooter requirements	92
6.32	Magnets and magnetic components	92
6.33	Yo-yo balls	95
6.34	Straps intended to be worn fully or partially around the neck	96
6.35	Sledges and toboggans with cords for pulling	96
6.36	Jaw entrapment in handles and steering wheels	97
6.37	Toy gun markings (refer to ISO 8124-1:2018, Annex D)	97
6.38	Toys attached to food (refer to ISO 8124-1:2018, B.2.8)	97
6.39	Toys comprising monofilament fibres which may present long hair hazards (refer to ISO 8124-1:2018)	97
6.40	Packaging and packaging components (spherical, egg-shaped or ellipsoidal, and hemispheric-shaped containers)	98
Annex A (informative) Index of requirements in EN 71-1		99
Annex B (informative) Index of requirements in ASTM F963		112
Annex C (informative) Significant editorial and technical changes to the previous version of this document		122
Bibliography		124

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 181, *Safety of toys*.

This second edition cancels and replaces the first edition (ISO/TR 8124-9:2018), which has been technically revised. The main changes to the previous edition are detailed in [Annex C](#).

A list of all parts in the ISO 8124 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The purpose of this document is to compare and contrast the identified versions of ASTM F963:2017, EN 71-1:2014+A1:2018 and ISO 8124-1:2018. This document focuses on the contents of these three referenced standards as they relate to mechanical and physical properties including scope, definitions, general requirements, warnings and test methods.

For ease of use and readability, ISO 8124-1:2018, Clause 4 is listed in [Clause 6](#) of this document. For example, ISO 8124-1:2018, 4.3 relates to [6.4](#) of this document.

This document is an overview and, therefore, does not cover the entirety of all the differences between ISO 8124-1, ASTM F963 and EN 71-1. In addition, this document is not to be relied on to fully understand conformity with any of the referenced standards or the requirements within them. In the case of any discrepancies in the comparisons presented, please refer to the relevant clauses of the referenced standards.

The index of requirements in EN 71-1 is given in [Annex A](#).

The index of requirements in ASTM F963 is given in [Annex B](#).

Safety of toys —

Part 9:

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

1 Scope

This document consists of a comparison of the mechanical and physical requirements covered by the following toy safety standards:

- a) ISO: ISO 8124-1:2018;
- b) Europe (CEN): EN 71-1:2014+A1:2018;
- c) USA: ASTM F963:2017.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Comparison of scopes

The scope of applicable toy products covered by the referenced standards is generally similar, as shown in [Table 1](#).