

Australian/New Zealand Standard™

Safety of toys

Part 1: Safety aspects related to mechanical and physical properties (ISO 8124-1:2000, MOD)



AS/NZS ISO 8124.1:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-018, Safety of Children's Toys. It was approved on behalf of the Council of Standards Australia on 30 April 2002 and on behalf of the Council of Standards New Zealand on 18 April 2002.

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The following are represented on Committee CS-018:

Australian Chamber of Commerce and Industry
Australian Competition and Consumer Commission
Australian Consumers Association
Australian Hearing
Australian Retailers Association
Commerce Commission New Zealand
Department of Fair Trading NSW Consumer
Kidsafe
Ministry of Health, New Zealand
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-018, Safety of Childrens Toys. It is an adoption with national modifications and has been reproduced from ISO 8124-1:2000, *Safety of toys, Part 1: Safety aspects related to mechanical and physical properties*.

This Standard incorporates Amendment No. 1 (May 2007), No. 2 (February 2009) and Amendment No. 3 (August 2009). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide a specification for general safety, construction and labelling requirements for toys complying with the proposed AS/NZS ISO 8124.1.

For the purpose of this Standard, the ISO text is modified as set out in Appendix ZZ. These changes are indicated by a marginal bar against the relevant clause or part thereof affected.

The changes were made to ISO 8124-1 for the following reasons:

- (a) To retain the previously used warnings on packaging which are uniformly applied to packaging of many different types of products, not just toys, in Australia and New Zealand.
- (b) To use terms more commonly in use in Australia and New Zealand.
- (c) To include additional advice.

As this Standard is reproduced from an international publication, the following applies.

- (i) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (ii) In the source text, ‘this part of ISO 8124’ should read ‘this Australian/New Zealand Standard’.
- (iii) A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by equivalent Australian, New Zealand or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard or other publication</i>	<i>Australian/New Zealand Standard</i>
ISO	AS
868 Plastics and ebonite—Determination of indentation hardness by means of a durometer (Shore hardness)	1683 Methods of test for elastomers 1683.15.1 Part 15.1: International rubber hardness
4287 Surface roughness—Terminology	
4287-2 Part 2: Measurement of surface roughness parameters	1683.15.2 Part 15.2: Durometer hardness
4593 Plastics—Film and sheeting—Determination of thickness by mechanical scanning	2382 Surface roughness comparison specimens
6508 Metallic materials—Rockwell hardness test	1815 Metallic materials—Rockwell hardness test
6508-1 Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)	

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex or appendix to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

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AUSTRALIAN/NEW ZEALAND STANDARD

Safety of toys

Part 1:

Safety aspects related to mechanical and physical properties

(ISO 8124-1:2000, MOD)

1 Scope

The requirements in this part of ISO 8124 apply to all toys, i.e. any product or material designed or clearly intended for use in play by children under 14 years of age. They are applicable to a toy as it is initially received by the consumer and, in addition, they apply after a toy is subjected to reasonably foreseeable conditions of normal use and abuse unless specifically noted otherwise.

The requirements of this part of ISO 8124 specify acceptable criteria for structural characteristics of toys, such as shape, size, contour, spacing (e.g. rattles, small parts, sharp points and edges, hinge-line clearances) as well as acceptable criteria for properties peculiar to certain categories of toy (e.g. maximum kinetic energy values for non-resilient-tipped projectiles, minimum tip angles for certain ride-on toys).

This part of ISO 8124 specifies requirements and test methods for toys intended for use by children in various age groups from birth to 14 years. The requirements vary according to the age group for which a particular toy is intended. The requirements for a particular age group reflect the nature of the hazards and the expected mental and/or physical abilities of the child to cope with them.

This part of ISO 8124 also requires that appropriate warnings and/or instructions for use be given on certain toys or their packaging. Due to linguistic problems that may occur in different countries, the wording of these warnings and instructions is not specified but given as general information in annex C. It should be noted that different legal requirements exist in many countries with regard to such marking.

This part of ISO 8124 does not purport to cover or include every conceivable potential hazard of a particular toy or toy category. Except for labelling requirements indicating the functional hazards and the age range for which the toy is intended, this part of ISO 8124 has no requirements for those characteristics of toys that represent an inherent and recognized hazard that is integral to the function of the toy.

NOTE An example of such a hazard is the sharp point necessary for the proper function of a needle. The needle is a hazard that is well understood by the purchaser of a toy sewing kit, and the functional sharp point hazard is communicated to the user as part of the normal educational process as well as at the point of purchase by means of cautionary labelling on the product's packaging.

As a further example, a toy scooter has inherent and recognized hazards associated with its use (e.g. instability during use, especially whilst learning). The potential hazards associated with its structural characteristics (sharp edges, pinch hazards, etc.) will be minimized by compliance with the requirements of this part of ISO 8124.

Products not included within the scope of this part of ISO 8124 are

- a) bicycles, except for those considered to be toys, i.e. those having a maximum saddle height of 435 mm (see E.1);
- b) slingshots;

NOTE "Slingshots" are also known as "catapults"