

AS/NZS 60335.2.23:2017
(Incorporating Amendments up to and including No. 2)



Australian/New Zealand Standard™

Household and similar electrical appliances — Safety

Part 2.23: Particular requirements for appliances for skin or hair care



AS/NZS 60335.2.23:2017

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers and Power Supplies. It was approved on behalf of the Council of Standards Australia on 11 May 2017 and by the New Zealand Standards Approvals Board on 10 May 2017.

This Standard was published on 30 June 2017.

The following are represented on Committee EL-002:

- Association of Accredited Certification Bodies
- Australian Industry Group
- National Retailers Association (Australia)
- Business New Zealand
- Consumer Electronic Suppliers Association, Australia
- Consumers' Federation of Australia
- Electrical Regulatory Authorities, Australia
- Electrical consultants
- Engineers Australia
- JAS-ANZ
- Testing Interests New Zealand
- WorkSafe, New Zealand
- New Zealand Electric Fence Energizer Manufacturers' Standards Group

This Standard was issued in draft form for comment as DR 16921.

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Part 2.23: Particular requirements for appliances for skin or hair care

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.23:2017

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –

Part 2.23: Particular requirements for appliances for skin or hair care

Foreword

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers to supersede AS/NZS 60335.2.23:2012 three years from the date of publication.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the appliance and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand

The text of IEC 60335-2-23 Ed 6, prepared by IEC Technical Committee TC 61, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

The principal changes in this edition as compared with the 2012 edition of AS/NZS 60335.2.23 and its amendment 1 (November 2015) are as follows (minor changes are not listed):

- added hair straighteners to the list of examples covered by the standard;
- modified 7.12 to apply to appliances, and not just to hairdryers.
- added new instructions in 7.12 for hair straighteners and curling irons
- exempted fixed hairdryers and fixed hand dryers from alternative format of instructions;
- excluded detachable curler surfaces from temperature rise requirement in Subclause 11.8;
- clarified in Subclause 19.7 that the appliance shall not emit flame after the test;
- clarified method of test and compliance criteria in Subclause 21.101;
- added requirement in 22.13 to delineate handles on curling irons and hair straighteners;
- in 22.103, added a requirement for protection against hair being pulled into hair dryer intake;
- revised Subclause 24.101 to indicate that protective devices shall not be self-resetting;
- reviewed and converted notes to normative text in Subclauses 19.7, 22.32, and 25.14.

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DOW
26/6/22

This Standard is an adoption with national modifications of the sixth edition of IEC 60335-2-23, *Household and similar electrical appliances – Safety – Part 2-23: Particular requirements for appliances for skin or hair care*. It has been varied as indicated to take account of Australian and New Zealand conditions.

A2 This standard incorporates Amendment No. 2 (June 2021). This amendment corrects the Australian national variation to subclause 7.1 of the IEC standard in AS/NZS 60335.2.23:2017+A1:2020. It takes effect from the date of publication.

The text of IEC 60335-2-23 edition 6 amendment 1, prepared by IEC Technical Committee TC 61, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption as an amendment to the Standards Australia/Standards New Zealand joint standard AS/NZS 60335.2.23:2017.

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This standard incorporates Amendment No. 1 (June 2020). The changes introduced by the amendments are indicated in the text by a marginal bar and amendment number against the part affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) and the date of withdrawal (DOW) if relevant, is indicated by the marginal bar against the part affected. Unless otherwise indicated, the application date of the changes introduced by Amendment No. 1 is 26 June 2022.

NOTE: Regulatory authorities that reference this Standard in regulation may apply these amendment requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements

This standard is an adoption with national modifications of the sixth edition of IEC 60335-2-23, *Household and similar electrical appliances – Safety – Part 2-23: Particular requirements for appliances for skin or hair care* including its amendment 1 (2019). It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 2 has to be used in conjunction with the latest edition of AS/NZS 60335.1 Household and similar electrical appliances – Safety – Part 1: General requirements and its Amendments. It was established on the basis of AS/NZS 60335.1:2011.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60335.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for appliances for skin or hair care.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;

A2 – figures, subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letters AZ.

NOTE 2 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3.

p NOTE 3 In this document, p is used in the margin to indicate instructions for preparing a consolidated version.

The essential safety requirements in AS/NZS 3820¹ that could be applicable to requirements for appliances for skin or hair care are covered by this standard.

A1
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26/6/22

The national variations to IEC 60335-2-23 Ed 6 form the Australian and New Zealand national variations for purposes of the IECCE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

¹ AS/NZS 3820 *Essential safety requirements for electrical equipment*

A1
DOA
26/6/22 | The national variations to IEC 60335-2-23 Ed 6.1 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

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The text of the International Standard IEC 60335-2-23 Ed 6 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

A1
DOA
26/6/22

The text of the International Standard IEC 60335-2-23 Ed 6.1 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below

AUSTRALIAN NATIONAL VARIATIONS

The following national variations to this Part 2 are additional to those listed in the national variations to AS/NZS 60335.1:2011.

7 Marking and instructions

- p **7.1** *Insert* after NOTE 101 the following variation:

NOTE 301 For the requirement applicable to **portable hairdryer** refer to 7.301.

- p **7.301** *Insert* after clause 7.12.1 the following variation:

7.301 Hand-held hairdryers shall be fitted with a label permanently attached to the **supply cord**. The label shall be marked with the symbol of Figure 301 and shall contain the substance of the following warning:

WARNING: Do not remove this label. To avoid danger of electrocution, do not store or leave the hairdryer in a position where it might fall into a bath-tub, basin or other vessel containing water, even when the hairdryer switch is in the off position. Remove the plug from the socket - outlet when the hairdryer is not being used

The size of the label shall be approximately 50 mm x 70 mm.

The lettering of the word "WARNING" shall be upper case and be not less than 5 mm high.

Other lettering shall be at least 2 mm high.

The colour of the diagonal bar shown in Figure 301 shall be red

Compliance is checked by inspection and measurement.

- p **Figure 301** After Figure 101 *insert* the following variation:

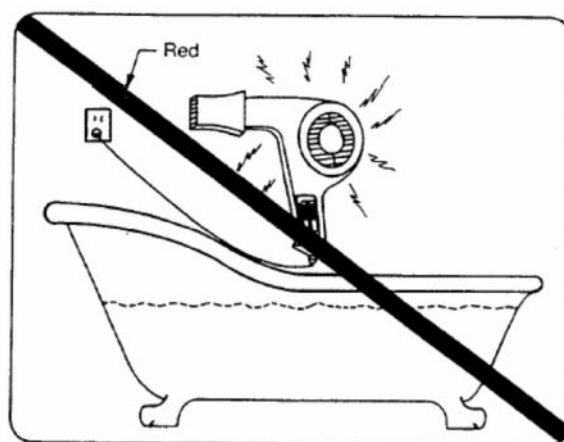


Figure 301 – Warning label for portable hairdryers

A2
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25
June
2021

The following national variations to this Part 2 are additional to those listed in the national variations to AS/NZS 60335.1:2020.

7 Marking and instructions

- p **7.1** *Insert* the following variation to the addition:

For **hand-held hairdryers**, instead of symbol ISO 7010-P026 (2011-05) refer to AZ.7.101.

- p **AZ.7.101** *Insert* after clause 7.15 the following variation:

AZ.7.101 Hand-held hairdryers shall be fitted with a label permanently attached to the **supply cord**. The label shall be marked with the symbol of Figure AZ.101 and shall contain the substance of the following warning:

WARNING: Do not remove this label. To avoid danger of electrocution, do not store or leave the hairdryer in a position where it might fall into a bath-tub, basin or other vessel containing water, even when the hairdryer switch is in the off position. Remove the plug from the socket - outlet when the hairdryer is not being used

The size of the label shall be approximately 50 mm × 70 mm.

The lettering of the word "WARNING" shall be upper case and be not less than 5 mm high.

Other lettering shall be at least 2 mm high.

The colour of the diagonal bar shown in Figure AZ.101 shall be red.

Compliance is checked by inspection and measurement.

FIGURES

- p **Figure AZ.101** *Replace* Figure 301 with the following variation:

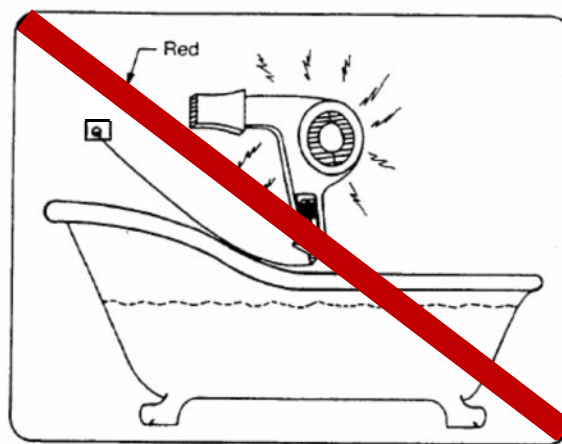


Figure AZ.101 – Warning label for hand-held hairdryers

NEW ZEALAND NATIONAL VARIATIONS

There are no national variations to this part 2 other than those listed in the national variations in AS/NZS 60335.1:2020.

Annex ANZ (normative)

Normative references to international publications with their corresponding joint Australia/New Zealand publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by national variations the relevant joint Australia/New Zealand publications applies if the national variations are needed to ensure the safety of the appliance for Australia/New Zealand conditions. These international publications are indicated by (mod). If an international publication is not so indicated, then either it or the listed Australia/New Zealand publication may be used.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
ISO 7010	2011	<i>Graphical symbols – Safety colours and safety signs – Registered safety signs</i>		

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