

COMMITTEE: EL-002
Safety of Household and Similar Electrical
Appliances and Small Power Transformers

DR 24028 CP

DRAFT

COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

DATE OF ISSUE: 21 October 2024
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24028 CP

AS/NZS 60335.2.25:2025

**Household and similar electrical appliances – Safety –
Part 2.25: Particular requirements for microwave
ovens, including combination microwave ovens**



**COMBINED DRAFT FOR COMMENT/POSTAL BALLOT
STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

**DRAFT
Australian/New Zealand Standard**

Household and similar electrical appliances – Safety –

**Part 2.25: Particular requirements for microwave ovens, including
combination microwave ovens**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

NOTES OF THE SECRETARY:

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-25 ED 8, COPIES OF WHICH MAY BE VIEWED BY CONTACTING enquiries@standards.govt.nz.

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. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

Keeping Standards up-to-date

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit www.standards.govt.nz or www.standards.org.au.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

We also welcome suggestions for improvement in our standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

AS/NZS 60335.2.25:2025
(IEC 60335-2-25 ED 8, IDT)

Australian/New Zealand Standard™

**Household and similar electrical
appliances – Safety –**

**Part 2.25: Particular requirements
for microwave ovens, including
combination microwave ovens**

(IEC 60335-2-25 ED 8, IDT)

Originated in Australia in part as AS 3301 - 1978
Originated in New Zealand as NZS 6325:1992
Final Australian edition AS 3301 - 1992
Jointly revised and redesignated AS/NZS 3350.2.25:1997
Second edition AS/NZS 3350.2.25:2001
Jointly revised and redesignated AS/NZS 60335.2.25:2002
Second edition AS/NZS 60335.2.25:2011
Jointly revised and designated AS/NZS 60335.2.25:2020
Jointly revised and designated AS/NZS 60335.2.25:2025

COPYRIGHT

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxx

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.25:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2.25: Particular requirements for microwave ovens, including combination microwave
ovens****Preface**

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 60335.2.25:2020 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.25:2020 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-25 ED 8, prepared by IEC Technical SC 61B, 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 2020 edition of AS/NZS 60335.2.25 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) some subclauses have been modified for the appliance outlets and socket-outlets;
- c) Subclause 7.12 has been improved in clarity; addition of accessible surface temperature limits (11.3, 11.8);
- d) Subclauses 8.1.1 and 20.2 have been modified to adopt test probe 19;
- e) Subclauses 10.1 and 10.2 have been improved in clarity for inverter type microwave ovens;
- f) maximum temperature rises of external accessible surfaces have been added in Subclause 11.8;
- g) test criterion has been modified in Subclause 15.101;
- h) Subclause 15.102 has been modified for harmonization with IEC 60335-2-6;
- i) Subclauses 8.1.3, 15.103, 19.11.2, 19.13, 22.105, 22.106, 22.111 and Figure 101 have been improved in clarity;
- j) Subclauses 22.103.2, 22.105 and 22.120 have been modified to adopt test probe 18;
- k) Subclause 16.101 has been modified to move the content of 16.101.1, 16.101.2 directly under 16.101;
- l) Subclause 22.119 has been modified to move the content of 22.119.1, 22.119.2 and 22.119.3 directly under 22.119.

This Standard is an adoption with national modifications of the eighth edition of IEC 60335-2-25, *Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens*. 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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 microwave ovens, including combination microwave ovens.

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.;
- 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. When a definition concerns an adjective, the adjective and associated noun are also in bold.

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 microwave ovens, including combination microwave ovens are covered by this standard.

The national variations to IEC 60335-2-25 ED 8 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).

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

The text of the International Standard IEC 60335-2-25 ED 8 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

AUSTRALIAN NATIONAL VARIATIONS

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

NEW ZEALAND NATIONAL VARIATIONS

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

DRAFT ONLY

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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
IEC 60068-2-6		<i>Environmental testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)</i>		
IEC 60068-2-27		<i>Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock</i>		
IEC 60068-2-52		<i>Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)</i>		
IEC 60584-1		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		
IEC 60335-2-6 (MOD)	2024	<i>Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances</i>	60335.2.6	2025
IEC 60335-2-9		<i>Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances</i>		