

Australian/New Zealand Standard™

**Performance of household electrical  
appliances—Microwave ovens**

**Part 1: Methods for measuring the  
performance of microwave ovens for  
household and similar purposes  
(IEC 60705, Ed. 3.2 (2006) MOD)**



## **AS/NZS 2895.1:2007**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-015, Quality and Performance of Household Electrical Appliances. It was approved on behalf of the Council of Standards Australia on 12 December 2006 and on behalf of the Council of Standards New Zealand on 20 December 2006.

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The following are represented on Committee EL-015:

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Australian Electrical and Electronic Manufacturers Association  
Australian Greenhouse Office, Department of the Environment and Heritage  
Australian Industry Group  
Australian Retailers Association  
Business New Zealand  
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*This Standard was issued in draft form for comment as DR 06652.*

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-015, Quality and Performance of Household Electrical Appliances, to supersede AS/NZS 2895.1:2004 on publication.

The AS/NZS 2895 series is comprised of two Parts, as follows:

AS/NZS

2895 Performance of household electrical appliances—Microwave ovens

2895.1 Part 1: Methods for measuring performance (this Standard)

2895.3 Part 3: Construction, quality and cooking tests

NOTE: It is common practice to include requirements for energy efficiency, energy labelling or MEPS (Minimum Energy Performance Standards), in a Part 2 of a series of product Standards. The number AS/NZS 2895.2 has therefore been reserved in case it is required for this purpose in the future.

The overall objective of the AS/NZS 2895 series of Standards is to define the main performance characteristics of household microwave ovens which are of interest to the user and to specify the methods for measuring these characteristics.

The Parts of AS/NZS 2895 are summarized as follows:

- (a) Part 1 Contains reproducible performance measurements and is technically identical to the corresponding sections of IEC 60705, Ed. 3.2 (2006), *Household microwave ovens—Methods for measuring performance*.
- (b) Part 3 Contains requirements for construction, marking and point of sale information. It also includes the subjective cooking and defrosting performance tests from IEC 60705, Ed. 3.2 (2006) as informative Appendices.

This Standard is an adoption with national modifications and has been reproduced from IEC 60705, Ed. 3.2 (2006), *Household microwave ovens—Methods for measuring performance*, and has been varied as indicated to take account of Australian/New Zealand conditions.

Section 12 *Cooking performance*, Section 13 *Defrosting performance* and Annex B *Regional defrosting tests*, have been deleted from this Standard and are reproduced as informative Appendices to AS/NZS 2895.3.

Variations to IEC 60705, Ed. 3.2 (2006) are indicated at the appropriate places throughout this Standard. Strikethrough (**example**) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (**example**). Added figures are not themselves shaded, but are identified by a shaded border.

As this Standard is reproduced from an International Standard, the following applies:

- (i) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (ii) In the source text ‘this international standard’ should read ‘this Australian/New Zealand Standard’.
- (iii) A full point should be substituted for a comma when referring to a decimal marker.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

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

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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Any table, figure or text of the international standard that is struck through is not part of this standard. Any Australian/New Zealand table, figure or text that is added is part of this standard and is identified by shading.

## 1 Scope

This International Standard applies to **microwave ovens** for household use. It also applies to **combination microwave ovens**.

This standard defines the main performance characteristics of household microwave ovens which are of interest to the user and specifies methods for measuring these characteristics.

NOTE 1 This standard does not deal with:

- ovens which cannot accept a load having a diameter of  $\geq 200$  mm;
- safety requirements (see IEC 60335-2-25 [1]\* and IEC 60335-2-90 [2]).

NOTE 2 This standard does not apply to ovens incorporating non-thermal heating means only (see IEC 60350 [3]).

## 2 Normative references

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.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

~~CISPR 11:1997, Industrial, scientific and medical (ISM) radio-frequency equipment—Electromagnetic disturbance characteristics—Limits and methods of measurement~~

AS/NZS ~~CISPR 11~~, *Industrial scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement*

## 3 Definitions

For the purpose of this International Standard, the following definitions apply.

### 3.1 microwave oven

appliance using electromagnetic energy in the ISM frequency band of 2 450 MHz, for heating food and beverages in the cavity.

NOTE 1 The microwave oven may incorporate a browning element.

\* Figures in square brackets refer to the bibliography given in annex C.