

# 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 60705:1999 MOD)



## **AS/NZS 2895.1:2004**

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 25 February 2004 and on behalf of the Council of Standards New Zealand on 5 March 2004. This Standard was published on 28 April 2004.

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The following are represented on Committee EL-015:

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Consumer Electronics Suppliers Association, Australia  
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*This Standard was issued in draft form for comment as DR 04003.*

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### Part 1: Methods for measuring the performance of microwave ovens for household and similar purposes (IEC 60705:1999 MOD)

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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 2895.1:1995 on publication.

*This Standard incorporates Amendment No. 1 (May 2006). 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 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 60705:1999, *Household microwave ovens—Methods for measuring performance*. (AS/NZS 2895.1:1995 was based on the 1988 edition of IEC 60705.)
- (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 as informative Appendices. (AS/NZS 2895.3:1995 contains the cooking and defrosting tests from IEC 60705:1998. A new edition of AS/NZS 2895.3 is planned for publication in 2004 to include the corresponding tests as revised in IEC 60705:1999).

This Standard is an adoption with national modifications and has been reproduced from, IEC 60705:1999, *Household microwave ovens—Methods for measuring performance*, and has been varied as indicated below 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 to be reproduced as informative Appendices in a revised edition of AS/NZS 2895.3 planned for publication in 2004.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this international standard’ should read ‘this Australian/New Zealand Standard’.
- (c) 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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household and similar purposes  
(IEC 60705:1999 MOD)**

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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 conventional heating means only (see IEC 60350) [3].

**2 Normative references**

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

CISPR 11:1997, *Industrial, scientific and medical (ISM) radio-frequency equipment – Electro-magnetic 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.

NOTE 2 – ISM frequency bands are the electromagnetic frequencies established by the ITU and reproduced in CISPR 11.

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