

INTERNATIONAL STANDARD

NORME INTERNATIONALE



AMENDMENT 1 AMENDEMENT 1

Household microwave ovens – Methods for measuring performance

Fours à micro-ondes à usage domestique – Méthodes de mesure de l'aptitude à la fonction



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FOREWORD

This amendment has been prepared by subcommittee 59K: Ovens and microwave ovens, cooking ranges and similar appliances, of IEC technical committee 59: Performance of household and similar electrical appliances.

The text of this amendment is based on the following documents:

FDIS	Report on voting
59K/252/FDIS	59K/255/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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- amended.

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INTRODUCTION to Amendment 1

This amendment includes the following significant technical changes:

- the usable volume is renamed to calculated volume and the measurement method for the calculated volume is revised (see 7.2), which is in accordance with IEC 60350-1;
- new definitions for **microwave function**, **combination microwave function**, **set to off mode**, **set to standby mode**, **cooling down period** and **food support** in Clause 3;
- a method for measuring the energy consumption of the **microwave function** in Clause 14;
- more precise requirements for instruments and measurements in Table 2;
- additional product specific requirements for measuring the energy consumption of low power modes in Clause 15;
- a method for measuring the energy consumption for the **cooling down period** in Annex F (informative).

FOREWORD

*Add, after the existing paragraph starting with "Words in **bold...**", the following new paragraph:*

This standard contains an attached file in the form of an Excel®¹ 97-2003 data sheet program. This file is intended to be used as a complement and does not form an integral part of the standard.

1 Scope

Replace, in Note 1, the dashed item "ovens which cannot accept a load having a diameter of ≥ 200 mm" with the following dashed item:

- microwave ovens which cannot accept a load having a diameter of ≥ 200 mm or a height of ≥ 120 mm;

2 Normative references

Add the following references:

IEC 60350-1:2011, *Household electric cooking appliances – Part 1: Ranges, ovens, steam ovens and grills – Methods for measuring performance*

IEC 60584-2, *Thermocouples – Part 2: Tolerances*

IEC 62301:2011, *Household electrical appliances – Measurement of standby power*

3 Terms and definitions

3.1 microwave oven

Delete Note 1 and renumber Note 2 as Note 1.

3.2 combination microwave oven

Add the following new note:

NOTE Energy transfer by steam is included in the term thermal heat.

Add, after 3.4, the following new terms and definitions:

3.5 microwave function

heat transfer exclusively by electromagnetic energy in the ISM frequency band of 2 450 MHz

3.6 combination microwave function

heat transfer by electromagnetic energy simultaneously or sequentially with thermal heat

NOTE Thermal heat can be a conventional heating function, a forced air circulation function, a hot steam function or steam function. These functions are defined in 3.12 to 3.15 of IEC 60350-1:2011.

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