

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

**Household and similar electrical appliances–
Safety– Part 2-25: Particular requirements for microwave ovens, including
combination microwave ovens
(Second Revision of IS 302-2-25: 2014)**

Electrical Appliances Sectional Committee
Sectional Committee, ETD 32

Last date of receipt of
comments: **13/06/2023**

NATIONAL FOREWORD

This Indian Standard which is identical with IEC 60335-2-25 “Household and similar electrical appliances– Safety– Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens” issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Appliances Sectional Committee.

This standard was first published in 1994 and revised in 2014. This revision has been undertaken to harmonize with the latest version of IEC 60335-2-25: 2020.

This standard covers the safety requirements of microwave ovens, including combination microwave ovens.

This standard however, does not cover the performance requirements which are covered under a separate standard (*refer* IS 11676).

This part 2 is to be used in conjunction with IS 302-1: 2023, Safety of Household and Similar Electrical Appliances Part 1 General Requirements (Seventh Revision) [Doc: ETD 32 (22184)WC (*Under preparation*)].

NOTE 1— When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IS 302-1, so as to convert that publication into the Indian standard: Particular 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 in Part 1 is to be adapted accordingly.

NOTE 2— The following numbering system is used:

- a) subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- b) 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;
c) additional annexes are lettered AA, BB, etc.

NOTE 3— The following print types are used:

- a) requirements: in roman type;
b) test specifications: in italic type;
c) notes: in small roman type.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60335-1, Household and similar electrical appliances – Safety – Part 1: General requirements	[Doc: ETD 32 (22184)WC <i>Under preparation</i>] IS 302-1: 2023, Safety of Household and Similar Electrical Appliances Part 1 General Requirements (Seventh Revision)	Identical with IEC 60335-1 2020
IEC 60068-2-6, Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)	IS/IEC 60068-2-6) : 2007, Environmental Testing Part 2 Tests Section 6 Test Fc: Vibration sinusoidal	Identical with IEC 60068-2-6 : 2007
IEC 60068-2-27, Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock	IS 9000 (Part 7/Sec 1) : 2018, Basic environmental testing procedures for electronic and electrical items: Part 7 impact test: Sec 1 shock (Test Ea) (Second Revision)	Identical with IEC 60068-2-27 : 2008
IEC 60335-2-6:2014, Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	IS 302 (Part 2/Sec 6): 2009, Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 6 cooking ranges, hobs, ovens and similar appliances (First Revision)	Modified/Technically Equivalent with IEC 60335-2-6: 2014
IEC 60335-2-9, Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances	IS 302 (Part 2/Sec 9) : 2009, Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 9 toasters, grills, roasters and similar appliances (First Revision)	Modified/Technically Equivalent with IEC 60335-2-9: 2008

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
<i>IEC 60068-2-52:1996</i>	<i>Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)</i>
<i>IEC 60335-2-5:2012</i>	<i>Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers</i>

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding of numerical values (revised)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Please send your comments to our department email, in case you missed the deadline mentioned in the National Foreword. Comments received before the upcoming Sectional Committee meeting of ETD 32 Electrical Appliances will be considered for discussion.

Note: The technical content of the document is not available on website. For details, please refer the corresponding of IEC 60335-2-25: 2020 or kindly contact:

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