

**BUREAU OF INDIAN STANDARDS**

**DRAFT FOR COMMENTS ONLY**

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*Draft Indian Standard*

**Household and similar electrical appliances – Safety –  
Part 2-42: Particular requirements for commercial electric forced convection  
ovens, steam cookers and steam-convection ovens**

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 60335-2-42 “Household and similar electrical appliances – Safety – Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection 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 covers the “Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens” which was previously covered in IS 302-2-46: 1993 identical to IEC 60335-2-46: 1986.

This revision has been undertaken to align with the latest version of IEC 60335-2-42: 2021 (Ed. 6.0). This standard will supersede IS 302-2-46: 1993.

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
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 60584-1, Thermocouples – Part 1: EMF specifications and tolerances	IS 16923 (Part 1): 2018 Thermocouples Part 1 EMF Specifications and Tolerances (First Revision)	Identical with IEC 60584-1: 2013
ISO 898-1, Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread	IS 1367 (Part 3) : 2017 Technical supply conditions for threaded steel fasteners: Part 3 mechanical properties of fasteners made of carbon steel and bolts, screws and studs (Fifth Revision)	Identical with ISO 898-1: 2013
ISO 3506-1, Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grade and property classes	IS 1367 (Part 14/Sec 1) : 2018 Technical supply conditions for threaded steel fasteners: Part 14 mechanical properties of corrosion - Resistant stainless - Steel fasteners section 1 bolts, screws and studs (Fourth Revision)	Identical with ISO 3506-1: 2020
ISO 3506-2, Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners– Part 2: Nuts with specified grade and property classes	IS 1367 (Part 14/Sec 2) : 2018 Technical Supply Conditions for Threaded Steel Fasteners Part 14 Mechanical Properties of Corrosion-resistant Stainless steel Fasteners Section 2 Nuts (Fourth Revision)	Identical with ISO 3506-2 : 2009
ISO 3506-3, Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress	IS 1367 (Part 14/Sec 3) : 2018 Technical supply conditions for threaded steel fasteners: Part 14 mechanical properties of corrosion - Resistant stainless steel fasteners section 3 set screws and similar fasteners not under tensile stress (Fourth Revision)	Identical with ISO 3506-3 : 2009

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 60068-2-52:2017</i>	<i>Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)</i>
<i>ISO 3506-4</i>	<i>Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws</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 60335-2-42: 2021 (Ed. 6.0) or kindly contact:

Head  
Electrotechnical Department  
Bureau of Indian Standards  
9, B.S. Zafar Marg,  
New Delhi-110002  
Email:[eetd@bis.gov.in](mailto:eetd@bis.gov.in)  
Telephone: 011-23231192 / 8284