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MAJAPIDAMIS- JA MUUD TAOLISED ELEKTRISEADMED. OHUTUS. OSA 2-25: ERINÕUDED MIKROLAINEAHJUDELE, SEALHULGAS KOMBINATSIOON-MIKROLAINEAHJUDELE

Household and similar electrical appliances - Safety -Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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See Eesti standard EVS-EN IEC 60335-2-25:2021 sisaldab Euroopa standardi EN IEC 60335-2-25:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60335-2-25:2021 consists of the English text of the European standard EN IEC 60335-2-25:2021.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.		
Euroopa standardimisorganisatsioonid on teinud			
Euroopa standardi rahvuslikele liikmetele kättesaadavaks 29.10.2021.	Date of Availability of the European standard is 29.10.2021.		
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EUROPEAN STANDARD

EN IEC 60335-2-25

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2021

ICS 13.120; 97.040.20

Supersedes EN 60335-2-25:2012 and all of its amendments and corrigenda (if any)

English Version

Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens (IEC 60335-2-25:2020)

Appareils électrodomestiques et analogues - Sécurité -Partie 2-25: Exigences particulières pour les fours à microondes, y compris les fours à micro-ondes combinés (IEC 60335-2-25:2020) Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-25: Besondere Anforderungen für Mikrowellenkochgeräte und kombinierte Mikrowellenkochgeräte (IEC 60335-2-25:2020)

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European foreword

This document EN IEC 60335-2-25:2021 consists of the text of IEC 60335-2-25:2020 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2022-09-27
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2024-09-27

This document supersedes EN 60335-2-25:2012 and all of its amendments and corrigenda (if any).

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This document is read in conjunction with EN IEC 60335-2-25:2021/A11:2021.

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directives see informative Annex ZZA, which is an integral part of EN IEC 60335-2-25:2021/A11:2021

Endorsement notice

The text of the International Standard IEC 60335-2-25:2020 was approved by CENELEC as a European Standard.





Edition 7.0 2020-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Household and similar electrical appliances – Safety– Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens

Appareils électrodomestiques et analogues – Sécurité – Partie 2-25: Exigences particulières pour les fours à micro-ondes, y compris les fours à micro-ondes combinés





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Edition 7.0 2020-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Household and similar electrical appliances - Safety-Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens

Appareils électrodomestiques et analogues – Sécurité – Partie 2-25: Exigences particulières pour les fours à micro-ondes, y compris les fours à micro-ondes combinés

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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CONTENTS

FOR	EWORD	4
INTF	RODUCTION	7
1	Scope	8
2	Normative references	9
3	Terms and definitions	9
4	General requirement	10
5	General conditions for the tests	10
6	Classification	10
7	Marking and instructions	10
8	Protection against access to live parts	12
9	Starting of motor-operated appliances	13
10	Power input and current	13
11	Heating	
12	Void	13
13	Leakage current and electric strength at operating temperature	13
14	Transient overvoltages	13
15	Moisture resistance	14
16	Leakage current and electric strength	15
17	Overload protection of transformers and associated circuits	16
18	Endurance	16
19	Abnormal operation	16
20	Stability and mechanical hazards	18
21	Mechanical strength	18
22	Construction	20
23	Internal wiring	26
24	Components	26
25	Supply connection and external flexible cords	27
26	Terminals for external conductors	27
27	Provision for earthing	27
28	Screws and connections	
29	Clearances, creepage distances and solid insulation	27
30	Resistance to heat and fire	27
31	Resistance to rusting	27
32	Radiation, toxicity and similar hazards	
Anne	exes	30
Anne	ex A (informative) Routine tests	30
Ann	ex AA (normative) Combination microwave ovens	32
Ann	ex BB (normative) Microwave ovens intended to be used on board ships	34
Bibli	ography	36

	abinet including separati			28
or direction of tilt				29
0				
	1			
	3			
	1.			
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60335-2-25 has been prepared by subcommittee 61B: Safety of microwave ovens for household and commercial use, of IEC technical committee 61: Safety of household and similar electrical appliances.

This seventh edition cancels and replaces the sixth edition published in 2010, Amendment 1:2014 and Amendment 2:2015. This edition constitutes a technical revision.

This edition includes the following significant changes with respect to the sixth edition:

- 11.7 and 19.13 are improved in clarity;
- in 19.102, a note is converted into normative text;
- 19.101 is improved with an alternative measurement method;
- 22.121 is improved with requirements for simultaneous activation of heating elements and motors;
- 15.2, 15.101, 21, 22.102, 22.112, 22.119, 22.120, 24.101 and 27.1 are improved in clarity;

- Annex A has editorial improvements and feasible limits of deviations.

The text of this International Standard is based on the following documents:

CDV	RVC
61B/611/CDV	61B/626/RVC
61B/615/CDV	61B/627/RVC
61B/621/CDV	61B/628/RVC
61B/622/CDV	61B/629/RVC
61B/623/CDV	61B/630/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

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 IEC 60335-1, so as to convert that publication into the IEC 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:

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

NOTE 3 The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this document 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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or

• amended.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations can need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The following differences exist in the countries indicated below.

- 5.3: Microwave leakage is not to exceed 10 W/m² during the initial test (Japan and USA).
- 6.1: Microwave ovens may be class 0I if the rated voltage does not exceed more than 150 V (Japan).
- 7.12: Specific instructions exist pertaining to using and servicing microwave ovens with respect to the risk of exposure to microwave energy (USA).
- 7.12: It is prohibited to place the appliance in a cabinet with a door (Japan).
- Clause 18: The test is carried out on two appliances (USA).
- 19.11.2: The input voltage variation is not applied (USA).
- 19.13: Microwave leakage is measured only at the end of each test (USA).
- 21.102: The applied force is 222 N (USA).
- 21.105: Microwave leakage is not to exceed 50 W/m² (Japan and USA).
- 22.111: Microwave leakage is measured only at the end of the test (USA).
- 22.112: Microwave leakage is not to exceed 50 W/m² (Japan and USA).
- 22.115: All access to the cavity has to be prevented (USA).

IMPORTANT – The "colour inside" logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features which impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of **microwave ovens** for household and similar use, their **rated voltage** being not more than 250 V.

This standard also deals with **combination microwave ovens**, for which Annex AA is applicable.

This standard also deals with **microwave ovens** intended to be used on board ships, for which Annex BB is applicable.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial purposes, the appliance is not considered to be for household and similar use only.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

children playing with the appliance.

NOTE 101 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 102 This standard does not apply to

- commercial microwave ovens (IEC 60335-2-90);
- industrial microwave heating equipment (IEC 60519-6);
- appliances for medical purposes (IEC 60601);
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

EVS-EN IEC 60335-2-25:2021

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60068-2-6, Environmental testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)

IEC 60068-2-27, Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock

IEC 60068-2-52, Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)

IEC 60335-2-5:2012, Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers

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

IEC 60335-2-9, Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

3 Terms and definitions

This clause of Part 1 is applicable except as follows.

3.1.7 Addition:

NOTE 101 The rated frequency is the input frequency.

3.1.9 *Replacement:*

normal operation

operation of the appliance with 1 000 g \pm 50 g of potable water at an initial temperature of 20 °C \pm 2 °C in a cylindrical borosilicate glass vessel having a maximum thickness of 3 mm and an outside diameter of approximately 190 mm. The vessel is placed on the centre of the **shelf**

3.101

microwave oven

appliance using electromagnetic energy in one or several of the ISM frequency bands¹ between 300 MHz and 30 GHz, for heating food and beverages in a **cavity**

3.102

combination microwave oven

microwave oven in which heat is also provided in the **cavity** by simultaneous or consecutive operation of resistive heating elements

Note 1 to entry: The resistive heating elements are used to provide radiant heat, convection heat or steam.

3.103

cavity

space enclosed by the inner walls and the door in which the load is placed

¹ ISM frequency bands are the electromagnetic frequencies established by the ITU and reproduced in CISPR 11.