



Edition 7.1 2025-02 CONSOLIDATED VERSION

INTERNATIONAL STANDARD

Household and similar electrical appliances – Safety –
Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans

Document Preview

IEC 60335-2-39:2021

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 97.040.50 ISBN 978-2-8327-0220-8

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CONTENTS

1 2 3 4 5 6 7 8 9 10 11 12 13	Heating Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	810111314141616	
3 4 5 6 7 8 9 10 11 12 13	Terms and definitions General requirement General conditions for the tests Classification Marking and instructions Protection against access to live parts Starting of motor-operated appliances Power input and current Heating Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	910111313141616	
4 5 6 7 8 9 10 11 12 13	General requirement General conditions for the tests Classification Marking and instructions Protection against access to live parts Starting of motor-operated appliances Power input and current Heating Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	10111314141616	
5 6 7 8 9 10 11 12 13	General conditions for the tests Classification Marking and instructions Protection against access to live parts Starting of motor-operated appliances Power input and current Heating Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	10111314141616	
6 7 8 9 10 11 12 13 14	Classification Marking and instructions Protection against access to live parts Starting of motor-operated appliances Power input and current Heating Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	111313141616	
7 8 9 10 11 12 13	Marking and instructions Protection against access to live parts Starting of motor-operated appliances Power input and current. Heating. Charging metal-ion batteries Leakage current and electric strength at operating temperature. Transient overvoltages Moisture resistance	11 13 14 14 16 16	
8 9 10 11 12 13 14	Protection against access to live parts Starting of motor-operated appliances Power input and current	13 14 14 16 16	
9 10 11 12 13 14	Starting of motor-operated appliances Power input and current	13141616	
10 11 12 13 14	Power input and current	14 16 16 17	
11 12 13 14 15	Heating Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	14 16 16	
12 13 14 15	Charging metal-ion batteries Leakage current and electric strength at operating temperature Transient overvoltages Moisture resistance	16 16 17	
13 14 15	Leakage current and electric strength at operating temperature Transient overvoltages	16	
14 15	Transient overvoltages	17	
15	Moisture resistance		
	Moisture resistance	17	
	Lookago current and electric strength		
16		18	
17	Overload protection of transformers and associated circuits	19	
18			
19	Abnormal operation	19	
20	Stability and mechanical hazards	20	
21	Mechanical strength	21	
s://sta			
23	B Internal wiring	23	
24	Components	23	
25	Supply connection and external flexible cords	24	
26			
27	Provision for earthing	24	
28	-		
29			
30			
31			
32	-		
	nnexes		
	nnex B (normative) Battery-operated appliances, separable batteries and detachable	20	
	batteries for battery-operated appliances		
Ar	nnex P (informative) Guidance for the application of this standard to appliances used tropical climates		
	bliography		

IEC 60335-2-39:2021+AMD1:2025 CSV © IEC 2025	- 3 -	REDLINE VERSION
Figure 102 – Identification of surfaces for te	emperature measurement	27
Figure 103 – Splash apparatus		28
Table 101 – Maximum temperature rises for under normal operating conditions	•	
Table 102 – Assembling torques for screwe		

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IEC 60335-2-39:2021

https://standards.iteh.ai/catalog/standards/iec/7358c49e-c87b-49fe-bfb5-7bcc0432b1e7/iec-60335-2-39-2021

- 4 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans

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 liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60335-2-39 edition 7.1 contains the seventh edition (2021-11) [documents 61/6374/FDIS and 61/6424/RVD] and its amendment 1 (2021-02) [documents 61/7241/CDV and 61/7352/RVC].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

IEC 60335-2-39:2021+AMD1:2025 CSV - 5 - © IEC 2025

IEC 60335-2-39 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This seventh edition cancels and replaces the sixth edition published in 2012 and Amendment 1:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the text has been aligned with IEC 60335-1:2020;
- b) some notes have been converted to normative text or modified (Clause 1, 15.1, 15.102, 16.2, 19.101, 27.2);
- c) exclusion of battery-operated appliances and appliances used in areas open to the public (Clause 1);
- d) relocation of cleaning instructions from 7.12.1 to 7.12;
- e) relocation of 24.101 to 22.115;
- f) conciliation of the text of IEC 60335-2-39 with other standards under IEC/TC61/MT32;
- g) clarifications and modifications to some test specifications have been made (9.101, 11.4, 15.1.1, 15.102, 20.1, 25.3).

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60335 series, published 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 unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) 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 commercial electric multipurpose cooking pans.

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.

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The committee has decided that the contents of this document and its amendment will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- 6 **-**

- · reconfirmed,
- · withdrawn, or
- revised.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may 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.

- 6.1: Class 01 appliances are allowed (Japan).
- 13.2: Leakage current limits are different (Japan).
- 16.2: Leakage current limits are different (Japan).

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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.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website

https://www.iec.ch/tc61/supportingdocuments

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

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 publications, basic safety publications and group safety publications 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.

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 that 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.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods of measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

- 8 -

Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electrically operated commercial **multi-purpose cooking pans**, their **rated voltage** being not more than 250 V for single-phase appliances connected between one phase and neutral and 480 V for other appliances, including direct current (DC) supplied appliances. This standard also deals with pressurized appliances and appliances with pressurized parts.

These appliances are not intended for household and similar purposes. They are used for commercial processing of food in areas not open to the public, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries and butcheries.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by these types of appliances.

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, the national water supply authorities and similar authorities.

This standard does not apply to

- appliances designed exclusively for industrial purposes;
- 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);
- appliances for continuous mass production of food;
- deep fat fryers (IEC 60335-2-37);
- battery-operated appliances.

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60584-1, Thermocouples – Part 1: EMF specifications and tolerances

IEC 60335-2-39:2021+AMD1:2025 CSV - 9 - © IEC 2025

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

ISO 3506-1, Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes

ISO 3506-2, Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts with specified grades and property classes

ISO 3506-3, Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress

ISO 3506-4, Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws

3 Terms and definitions

This clause of Part 1 is applicable except as follows.

3.1 Definitions relating to physical characteristics

3.1.4 Addition:

Note 101 to entry: The **rated power input** is the sum of the power inputs of all the individual elements in the appliance that can be on at one time; where there are several such combinations possible, that giving the highest power input is used in determining the **rated power input**.

3.1.9 Replacement:

Modification:

Replace the first paragraph with the following:

operation of the appliance under the following conditions:

The appliance is operated in accordance with the manufacturer's instructions, with no load and with the controls set to give the temperatures as set out below, the temperature being measured at the geometrical centre of the inside of the bottom face.

Stepped controls are set to the first position that gives a temperature equal to or greater than 275 $^{\circ}$ C. Cycling controls are set so that the mean value of the temperature over the cycle is 275 $^{\circ}$ C \pm 5 $^{\circ}$ C. If this temperature cannot be reached, the control is set at the maximum.

Motors and **detachable electrical parts** incorporated in the appliance are operated under the most unfavourable conditions that can be expected in normal use taking into account the manufacturer's instructions.

3.1.101

rated pressure

maximum working pressure assigned by the manufacturer to the pressurized parts of the appliance

3.5 Definitions relating to types of appliances

3.5.101

multi-purpose cooking pan

appliance comprising a pan, the base of which is evenly heated and that is intended principally for cooking or preparing meats, sauces, etc.

Note 1 to entry: The pan may be fixed or tilting.

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Note 2 to entry: A multi-purpose cooking pan is also known as a "bratt pan".

atmospheric multi-purpose cooking pan

multi-purpose cooking pan in which the pressure within the vessel does not differ significantly from atmospheric pressure

3.6 Definitions relating to parts of an appliance

3.6.101

functional surface

surface that is intentionally heated by an internal heat source and has to be hot to carry out the function for which the appliance is intended

Note 1 to entry: An example is the heated sheath of a tubular heating element.

3.6.102

adiacent surface

surface that is adjacent to a functional surface and which can become hot through conduction

3.8 Definitions relating to miscellaneous matters

3.8.101

installation wall

special fixed construction containing supply facilities for appliances installed in conjunction with it

General requirement 05: / Standards.iteh.ai)

This clause of Part 1 is applicable. Ument Preview

General conditions for the tests 10335-2-39:2021

This clause of Part 1 is applicable except as follows.

5.5 Addition:

The tests are carried out with the pan in the position of normal use for cooking.

5.10 Addition:

Appliances intended for installation in a bank of other appliances and appliances intended to be fixed to an installation wall are enclosed to obtain protection against electric shock and harmful ingress of water equivalent to that obtained when installed in accordance with the instructions provided with the appliance.

NOTE Appropriate enclosures or additional appliances can be needed for test purposes.

- 5.101 Appliances are tested as heating appliances when during a mode of operation electrical heaters are energized. If no electrical heaters are energized, the appliances are tested as motor-operated appliances.
- **5.102** Appliances, when assembled in combination with or incorporating other appliances, are tested in accordance with the requirements of this standard. The other appliances are operated simultaneously in accordance with the requirements of the relevant standards.

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6 Classification

This clause of Part 1 is applicable except as follows.

6.1 Replacement:

Appliances shall be class I with respect to protection against electric shock.

Compliance is checked by inspection and by the relevant tests.

6.2 Addition:

Appliances normally used on a table shall be at least IPX3. Other appliances shall be at least IPX4.

7 Marking and instructions

This clause of Part 1 is applicable except as follows.

7.1 Addition:

Appliances shall be marked with the rated capacity, in litres (I), unless this is marked on the appliance by another means, for example by a level mark.

If appliances have external **accessible surfaces** or lids, for which temperature rise limits are specified in Table 101 and for which the provisions of footnote "b" to Table 101 apply, then the appliance shall be marked with symbol IEC 60417-5041 (2002-10), or with the substance of the following:

Caution: Hot surfaces. IEC 60335-2-39:20

7.6 Addition: ai/catalog/standards/iec/7358c49e-c87b-49fe-bfb5-7bcc0432b1e7/iec-60335-2-39-2021



[symbol IEC 60417-5041 (2002-10)]

caution, hot surface

7.10 Addition:

Devices that control the tilting movement of tilting parts shall be clearly marked to show the direction of movement.

7.12 Addition:

The instructions shall warn the user not to use the appliance as a deep fat fryer unless it is intended to be used as one.

Appliances that are provided with an appliance inlet and are intended to be immersed in water for cleaning shall be accompanied by an instruction stating that the connector shall be removed before the appliance is cleaned and that the appliance inlet shall be dried before the appliance is used again.

Unless the appliance or part is intended to be partially or completely immersed in water for cleaning, the instructions for appliances with detachable electrical parts and appliances, other than stationary appliances, shall state that the appliance or part must not be immersed.

If any of the symbols IEC 60417-5021 (2002-10) or IEC 60417-5041 (2002-10) are marked on the appliance, its meaning shall be explained.

The instructions shall include the substance of the following warnings:

WARNING: Do not open drain cocks or other emptying devices until the pressure has been

reduced to approximately atmospheric pressure.

WARNING: Opening the drain cock will lead to the outflow of the hot contents of the multi-

purpose cooking pan.

The instructions shall include the substance of the following:

These appliances are intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries and butcheries but not for continuous mass production of food.

If the manufacturer wants to limit the use of the appliance to less than the above, this has to be clearly stated in the instructions.

Modification:

The instruction concerning persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge and children playing with the appliance is not applicable.

7.12.1 *Addition:*

The appliance shall be accompanied by instructions detailing any special precautions necessary for installation. For appliances intended for installation in a bank of other appliances and appliances intended to be fixed to an installation wall, details of how to ensure appropriate protection against electric shock and harmful ingress of water shall be supplied. If the controls of more than one appliance are combined in a separate enclosure, detailed installation instructions shall be supplied. Instructions for user maintenance, for example cleaning, shall also be given. They shall include a statement that the appliance is not to be cleaned with a water jet or a steam cleaner.

For appliances that are permanently connected to fixed wiring and for which leakage currents can exceed 10 mA, particularly if disconnected or not used for long periods, or during initial installation, the instructions shall give recommendations regarding the rating of protective devices, such as residual current devices (RCD), to be installed.

If a stationary appliance is intended to be moved for cleaning, this shall be stated.

For stationary appliances equipped with rollers or castors or intended to be moved for cleaning, the instructions shall state the substance of the following.

This appliance is to be connected with flexible connections for equipotential bonding and connection to services such as electricity supply, water supply, gas supply and steam supply such that the appliance can be moved in the direction required for cleaning a distance not less than the dimension of the appliance in the direction of movement plus 500 mm without the flexible connections becoming taut or being subject to strain.

Compliance is checked by inspection.

7.12.4 Addition: