



# SLOVENSKI STANDARD SIST EN 60335-2-37:2001

01-februar-2001

BUXca Yý U

SIST EN 60335-2-37:1997

SIST EN 60335-2-37:1997/A1:1997

SIST EN 60335-2-37:1997/A2:1999

## Safety of household and similar electrical appliances - Part 2-37: Particular requirements for commercial electric deep fat fryers

Safety of household and similar electrical appliances -- Part 2-37: Particular requirements for commercial electric deep fat fryers

[standards.iteh.ai](https://standards.iteh.ai)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-37: Besondere Anforderungen für elektrische Friteusen für den gewerblichen Gebrauch

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001>

Sécurité des appareils électrodomestiques et analogues -- Partie 2-37: Règles particulières pour les friteuses électriques à usage collectif

Ta slovenski standard je istoveten z: EN 60335-2-37:2000

### ICS:

97.040.20      97.040.20      Cooking ranges, working tables, ovens and similar appliances

SIST EN 60335-2-37:2001      en

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60335-2-37:2001](https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001)

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001>

EUROPEAN STANDARD

**EN 60335-2-37**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2000

ICS 97.040.50

Supersedes EN 60335-2-37:1995 + A1:1996 + A2:1999

English version

**Safety of household and similar electrical appliances**  
**Part 2-37: Particular requirements for commercial electric deep fat fryers**  
(IEC 60335-2-37:2000)

Sécurité des appareils  
électrodomestiques et analogues  
Partie 2-37: Règles particulières pour les  
friteuses électriques à usage collectif  
(CEI 60335-2-37:2000)

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke  
Teil 2-37: Besondere Anforderungen für  
elektrische Friteusen für den gewerblichen  
Gebrauch  
(IEC 60335-2-37:2000)

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60335-2-37:2001](https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-)

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d->

This European Standard was approved by CENELEC on 2000-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

# CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

## Foreword

The text of document 61E/348/FDIS, future fourth edition of IEC 60335-2-37, prepared by SC 61E of the IEC Technical Committee 61, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-37 on 2000-04-01.

This European Standard replaces EN 60335-2-37:1995 and its amendments A1:1996 and A2:1999.

The following dates are applicable:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2001-01-01
- date on which national standards  
conflicting with the EN have to be withdrawn (dow) 2003-04-01

This standard has to be used in conjunction with EN 60335-1, Safety of household and similar electrical appliances, Part 1: General requirements. It was established on the basis of the 1994 edition of that standard. Amendments and revisions of part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of part 1.

This part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Safety requirements for commercial electric deep fat fryers.

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 of part 1 is to be adapted accordingly.

Subclauses, figures and notes which are additional to those in part 1 are numbered starting with 101.

There are no special national conditions causing a deviation from this European Standard, other than those listed in annex ZA to EN 60335-1.

National deviations from this European Standard are listed in annex ZB and are in addition to those in EN 60335-1.

NOTE 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 2. When a definition of part 1 concerns an adjective, the adjective and the associated noun are also in bold.

p NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

STANDARD PREVIEW  
(standards.iteh.ai)

https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-  
61e348-fdis-2000-04-01

.....

.....

p *Add:*

### Introduction

An investigation by CENELEC TC 61 has shown that all risks from products within the scope of this standard are fully covered by the Low Voltage Directive, 73/23/EEC. If the product has mechanical moving parts, a risk assessment in accordance with the Machinery Directive, 89/392/EEC, has shown that the risks are mainly of electrical origin and consequently this directive is not applicable. However, the relevant essential safety requirements of the Machinery Directive are covered by this standard together with the principal objectives of the Low Voltage Directive.

### Endorsement notice

The text of the International Standard IEC 60335-2-37:2000 was approved by CENELEC as a European Standard without any modification.

p *Add:*

### Annex ZB (informative)

#### A-deviations

*Addition:*ClauseDeviation

7.15

**Austria** (Elektroschutzverordnung 1995 - BGBl. Nr. 706/1995, § 7.15)

If the marking of fixed appliances is not visible after the appliance has been installed, the relevant information shall also be included in the instructions for use and on an additional label which can be fixed near the appliance after installation.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60335-2-37:2001](https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001)

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001>

INTERNATIONAL  
STANDARD

IEC  
60335-2-37

Fourth edition  
2000-02

---

---

**Safety of household and similar electrical  
appliances –**

**Part 2-37:  
Particular requirements for commercial electric  
deep fat fryers**

**(standards.iteh.ai)**

*Sécurité des appareils électrodomestiques et analogues –*

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-60b1b4cdc55/sist-en-60335-2-37-2001>

**Partie 2-37:  
Règles particulières pour les friteuses électriques  
à usage collectif**



Reference number  
IEC 60335-2-37:2000(E)

## Numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series.

## Consolidated publications

Consolidated versions of some IEC publications including amendments are available. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

## Validity of this publication

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology.

Information relating to the date of the reconfirmation of the publication is available in the IEC catalogue.

Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is to be found at the following IEC sources:

- **IEC web site\***
- **Catalogue of IEC publications**  
Published yearly with regular updates  
(On-line catalogue)\*
- **IEC Bulletin**  
Available both at the IEC web site\* and as a printed periodical

## Terminology, graphical and letter symbols

For general terminology, readers are referred to IEC 60050: *International Electrotechnical Vocabulary* (IEV).

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications IEC 60027: *Letter symbols to be used in electrical technology*, IEC 60417: *Graphical symbols for use on equipment. Index, survey and compilation of the single sheets* and IEC 60617: *Graphical symbols for diagrams*.

\* See web site address on title page.



# INTERNATIONAL STANDARD

# IEC 60335-2-37

Fourth edition  
2000-02

---



---

## Safety of household and similar electrical appliances –

### Part 2-37:

### Particular requirements for commercial electric deep fat fryers

(standards.iteh.ai)

### *Sécurité des appareils électrodomestiques et analogues –*

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-40b1b4cdc55/sist-en-60335-2-37-2001>

### *Partie 2-37:*

### *Règles particulières pour les friteuses électriques à usage collectif*

© IEC 2000 — Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission  
Telefax: +41 22 919 0300

3, rue de Varembe Geneva, Switzerland  
e-mail: inmail@iec.ch IEC web site <http://www.iec.ch>



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE

L

For price, see current catalogue

## CONTENTS

	Page
FOREWORD .....	3
Clause	
1 Scope .....	5
2 Definitions .....	5
3 General requirement .....	6
4 General conditions for the tests .....	6
5 Void .....	7
6 Classification .....	7
7 Marking and instructions .....	7
8 Protection against access to live parts .....	9
9 Starting of motor-operated appliances .....	9
10 Power input and current .....	10
11 Heating .....	10
12 Void .....	11
13 Leakage current and electric strength at operating temperature .....	11
14 Void .....	11
15 Moisture resistance .....	11
16 Leakage current and electric strength .....	13
17 Overload protection of transformers and associated circuits .....	13
18 Endurance .....	13
19 Abnormal operation .....	13
20 Stability and mechanical hazards .....	14
21 Mechanical strength .....	14
22 Construction .....	15
23 Internal wiring .....	18
24 Components .....	18
25 Supply connection and external flexible cords .....	18
26 Terminals for external conductors .....	19
27 Provision for earthing .....	19
28 Screws and connections .....	19
29 Creepage distances, clearances and distances through insulation .....	19
30 Resistance to heat, fire and tracking .....	19
31 Resistance to rusting .....	20
32 Radiation, toxicity and similar hazards .....	20
Figure 101 .....	21
Annexes .....	22

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –

Part 2-37: Particular requirements for commercial electric  
deep fat fryers

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60335-2-37 has been prepared by subcommittee 61E: Safety of electrical commercial catering equipment, of IEC technical committee 61: Safety of household and similar electrical appliances.

It forms the fourth edition of IEC 60335-2-37 and cancels and replaces the third edition, published in 1994, its amendment 1 (1996) and amendment 2 (1998).

The text of this standard is based on the third edition, amendments 1 and 2 and the following documents:

FDIS	Report on voting
61E/348/FDIS	61E/362/RVD

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

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 third edition (1991) of that standard.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert it into the IEC standard: Safety requirements for commercial electric deep fatfryers.

Where a particular subclause of part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant text in part 1 is to be adapted accordingly.

NOTE 1 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 2.

NOTE 2 Subclauses, figures and notes which are additional to those in part 1 are numbered starting from 101.

A bilingual version of this standard may be issued at a later date.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 60335-2-37:2001](https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001)

<https://standards.iteh.ai/catalog/standards/sist/521adff6-5e74-4a84-ab3d-d0f31b4cdc55/sist-en-60335-2-37-2001>