



SLOVENSKI STANDARD

SIST EN 60335-2-13:1997

01-junij-1997

Nadomešča:

SIST EN 60335-2-13:1995

Varnost gospodinjskih in podobnih električnih aparatov - 2-13. del: Posebne zahteve za cvrtnike, ponve za cvrtje in podobne aparate (IEC 60335-2-13:1993 + A1:1993; spremenjen)

Safety of household and similar electrical appliances -- Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances

iTeh STANDARD PREVIEW

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-13: Besondere Anforderungen für Fritiergeräte, Bratpfannen und ähnliche Geräte

[SIST EN 60335-2-13:1997](#)

Sécurité des appareils électrodomestiques et analogues -- Partie 2-13: Règles particulières pour les friteuses, les poêles à frire et appareils analogues

Ta slovenski standard je istoveten z: EN 60335-2-13:1995

ICS:

13.120	Varnost na domu	Domestic safety
97.040.50	Majhni gospodinjski aparati	Small kitchen appliances

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60335-2-13

November 1995

ICS 97.040.20; 97.040.50

Supersedes EN 60335-2-13:1990 and its amendment

Descriptors: Household electrical appliances, deep fat fryers, frying pans, safety requirements, protection against electric shock, fire protection, protection against mechanical hazard

English version

Safety of household and similar electrical appliances
Part 2: Particular requirements for deep fat fryers,
frying pans and similar appliances
(IEC 335-2-13:1993 + A1:1993, modified)

Sécurité des appareils
électrodomestiques et analogues
Partie 2: Règles particulières pour les
friteuses, les poêles à frire et appareils
analogues
(CEI 335-2-13:1993 + A1:1993,
modifiée)

Sicherheit elektrischer Geräte für den
Hausgebrauch und ähnliche Zwecke
Teil 2: Besondere Anforderungen für
Fritiergeräte, Bratpfannen und
ähnliche Zwecke
(IEC 335-2-13:1993 + A1:1993,
modifiziert)

[SIST EN 60335-2-13:1997](https://standards.iteh.ai/catalog/standards/sist/3fd89c06-1e86-4387-86de-b73324ee5375/sist-en-60335-2-13-1997)

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This European Standard was approved by CENELEC on 1995-07-04. 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, 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 proposal to endorse IEC 335-2-13:1993, document CLC/TC 61 (SEC) 917, was circulated under the enquiry procedure in September 1993. The proposal to endorse amendment 1:1993 to IEC 335-2-13:1993, document CLC/TC 61 (SEC) 927, was circulated under the enquiry procedure in November 1993. These proposals were discussed during the Oslo meeting in April 1994, when it was decided to submit a draft for EN 60335-2-13 to the formal vote.

This draft was circulated in November 1994 and was ratified by CENELEC as EN 60335-2-13 on 1995-07-04.

A proposal to amend prEN 60335-2-13:1994, document CLC/TC 61 (NL) 384, was discussed during the Paris meeting in November 1994, when it was decided to submit a draft for an amendment to the formal vote.

The draft was circulated as prAB in March 1995 and was ratified on 1995-09-20 for incorporation into the European Standard.

This European Standard has been prepared by the secretariat of CENELEC Technical Committee TC 61.

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) 1996-03-01
- date on which national standards conflicting with the EN have to be withdrawn (dow) 1998-03-01

For products which have complied with EN 60335-2-13:1990 including its amendment A1:1992 before 1998-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2003-03-01. However from 1998-03-01 subclause 19.Z101 shall be applied for the production of all appliances.

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 electric deep fat fryers, frying pans and similar appliances.

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 of part 1 is to be adapted accordingly.

Subclauses which are additional to those in part 1 are numbered starting from 101. Subclauses which are additional to those in IEC 335-2-13 are identified by the letter Z.

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

There are no national deviations from this European Standard other than those listed in annex ZB to 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.

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Endorsement notice

The text of the International Standard IEC 335-2-13:1993 + A1:1993 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

- p **Contents** Replace the title of clause 8 by:

Protection against access to live parts
- 7** **Marking and instructions**
- p 7.12 Add:

The instructions for use shall include details on how to clean surfaces in contact with food or oil.
- p **8** Replace the title by:
Protection against access to live parts
(standards.iteh.ai)
- 19** **Abnormal operation**
SIST EN 60335-2-13:1997
- p 19.1 Add: <https://standards.iteh.ai/catalog/standards/sist/3fd89c06-1e86-4387-86de-b73324ee5375/sist-en-60335-2-13-1997>

*Deep fat fryers with **detachable heating elements** are also subjected to the test of 19.Z101.*
- p 19.13 Add:

A temperature rise of 200 K is allowed for the floor and walls of the test corner during the first minute of the test of 19.Z101.
- p
19.Z101 Add:

***Detachable heating elements**, which are not automatically switched off when removed from the appliance, are placed on the floor of the test corner in the most unfavourable position and operated at **rated power input**.*
-

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
335-2-13

Quatrième édition
Fourth edition
-1993-03

Sécurité des appareils électrodomestiques
et analogues

Partie 2:

Règles particulières pour les friteuses,
les poêles à frire et appareils analogues

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Safety of household and similar electrical
appliances

<https://standards.iteh.ai/standards/sist/3fd89c06-1e86-4387-86de-b73324ee5375/sist-en-60335-2-13-1997>

Part 2:

Particular requirements for deep fat fryers,
frying pans and similar appliances

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SAFETY OF HOUSEHOLD AND
SIMILAR ELECTRICAL APPLIANCESPart 2: Particular requirements for deep fat fryers,
frying pans and similar appliances

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a world-wide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation 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, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, 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.

This part of International Standard IEC 335 has been prepared by IEC Technical Committee No. 61: Safety of household and similar electrical appliances.

It forms the fourth edition of IEC 335-2-13 and replaces the third edition and its amendment No. 1.

The text of this part is based on the following documents:

DIS	Report on voting
61(CO)753	61(CO)767

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

This part 2 is to be used in conjunction with the latest edition of IEC 335-1 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 of IEC 335-1, so as to convert that publication into the IEC standard: Safety requirements for electric deep fat fryers, frying pans and similar appliances.

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.

NOTES

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.

2 Subclauses which are additional to those in part 1 are numbered starting from 101.

The following additional differences exist in some countries:

- 2.2.9: Food loads are used (U.S.A.).
- Clause 3: The allowable d.c. component in the appliance neutral is limited (Australia).
- 7.1: Non-immersible appliances are required to be marked with a warning against immersion (Canada and U.S.A.).
- 7.1: Appliances are required to be marked with the identity of the appropriate connector when it incorporates a thermostat (Canada and U.S.A.).
- 11.2: Plywood 9,5 mm thick is used (U.S.A.).
- 11.7: Appliances are operated until a specified quantity of food is cooked (U.S.A.).
- 11.8: Higher oil temperatures are permitted (U.S.A.).
- 19.1: The tests of 19.4 and 19.5 are made (Australia and New Zealand).
- 19.2: This test is conducted differently (U.S.A.).
- 19.13: Higher oil temperatures are permitted (U.S.A.).
- 25.7: Other types of cords are permitted (U.S.A.).

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

Part 2: Particular requirements for deep fat fryers, frying pans and similar appliances

1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of electric deep fat fryers, frying pans and other appliances intended for household use only in which oil is used for cooking, their **rated voltage** being not more than 250 V.

So far as is practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home.

This standard does not in general take into account

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliance by young children.

NOTES

1 Attention is drawn to the fact that:

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- for appliances intended to be used in tropical countries, special requirements may 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.

2 This standard does not apply to:

- deep fat fryers having a recommended maximum quantity of oil exceeding 4 l (IEC 335-2-37);
- other similar appliances designed for commercial catering (IEC 335-2-39).
- 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);

2 Definitions

This clause of part 1 is applicable except as follows:

2.2.9 Replacement:

normal operation:

Deep fat fryers are operated with frying oil at room temperature and filled to the minimum oil level marked on the appliance, the thermostat being at the highest setting.