

# SLOVENSKI STANDARD

## SIST EN 60335-2-74:1997

01-junij-1997

### Nadomešča:

SIST HD 262 S1:1992

SIST HD 262.2 S1:1992

SIST HD 262.3 S1:1992

SIST HD 262.4 S1:1992

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**Varnost gospodinjskih in podobnih električnih aparatov - 2-74. del: Posebne zahteve za prenosne potopne grelnike (IEC 60335-2-74:1994)**

Safety of household and similar electrical appliances -- Part 2-74: Particular requirements for portable immersion heaters

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-74: Besondere Anforderungen für ortsveränderliche Tauchheizgeräte

Sécurité des appareils électrodomestiques et analogues -- Partie 2-74: Règles particulières pour les thermoplongeurs mobiles

**Ta slovenski standard je istoveten z: EN 60335-2-74:1996**

### **ICS:**

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

**SIST EN 60335-2-74:1997** en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60335-2-74**

July 1996

ICS 97.040.50

Supersedes HD 262 S1:1977 and its modifications

Descriptors: Household electrical appliances, immersion heaters, 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 portable immersion heaters  
(IEC 335-2-74:1994)**

Sécurité des appareils  
électrodomestiques et analogues  
Partie 2: Règles particulières pour  
les thermoplongeurs mobiles  
(CEI 335-2-74:1994)

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke  
Teil 2: Besondere Anforderungen für  
ortsveränderliche Tauchheizgeräte  
(IEC 335-2-74:1994)

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This European Standard was approved by CENELEC on 1996-07-02. 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 335-2-74:1994, document CLC/TC 61(SEC)969, was circulated under the enquiry procedure in July 1994. This proposal was discussed during the Dublin meeting in May 1995, when it was decided to submit a draft for EN 60335-2-74 to the formal vote.

This draft was circulated in January 1996 and was ratified by CENELEC as EN 60335-2-74 on 1996-07-02.

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) 1997-01-01
- date on which national standards conflicting with the EN have to be withdrawn (dow) 1999-01-01

For products which have complied with HD 262 S1:1977 + HD 262.2 S1:1978 + HD 262.3 S1:1989 + HD 262.4 S1:1990 before 1999-01-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2004-01-01.

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 electric portable immersion heaters.

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 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.

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.

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## Endorsement notice

The text of the International Standard IEC 335-2-74:1994 was approved by CENELEC as a European Standard without any modification.

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC  
335-2-74**

Première édition  
First edition  
1994-06

**Sécurité des appareils électrodomestiques  
et analogues**

**Partie 2:**

**Règles particulières pour les  
thermoplongeurs mobiles**

**(standards.iteh.ai)**

**Safety of household and similar electrical  
appliances**

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**Part 2:**

**Particular requirements for portable  
immersion heaters**

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

SAFETY OF HOUSEHOLD AND SIMILAR  
ELECTRICAL APPLIANCESPart 2: Particular requirements for  
portable immersion heaters

## 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 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 61: Safety of household and similar electrical appliances.

It forms the first edition of IEC 335-2-74.

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

DIS	Report on voting
61(CO)782	61(CO)796

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 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 in IEC 335-1, so as to convert it into the IEC standard: Safety requirements for electric portable immersion heaters.

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

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

The following additional differences exist in some countries:

- Clause 3: The d.c. component in the appliance neutral is limited (Australia).
- 19.2: The test is conducted with the appliance suspended by its supply cord (Poland).
- Clause 21: The additional test is only carried out on appliances with a non-metallic enclosure (USA).
- 22.101: This requirement is not applicable (USA).

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## SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

### Part 2: Particular requirements for portable immersion heaters

#### 1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of **portable immersion heaters** for household and similar purposes, their **rated voltage** being not more than 250 V.

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.

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, the national water supply authorities and similar authorities.

2 This standard does not apply to:

- appliances intended 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);
- aquarium heaters (IEC 335-2-55);
- fixed immersion heaters (IEC 335-2-73);
- heating elements incorporated in **portable appliances** such as appliances for heating liquids (IEC 335-2-15).

#### 2 Definitions

This clause of part 1 is applicable except as follows: