



SLOVENSKI STANDARD
SIST EN 61255:1998
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Household electric heating pads - Methods for measuring performance (IEC 1255:1994)

Household electric heating pads - Methods for measuring performance (IEC 1255:1994)

Elektrische Haushalt-Heizkissen - Prüfung zur Bestimmung der Gebrauchseigenschaften

Coussins chauffants électriques pour usage domestique - Méthodes de mesure de l'aptitude à la fonction

STANDARD PREVIEW
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Ta slovenski standard je istoveten z: **EN 61255:1994**

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ICS:

97.030	Električni aparati za dom na splošno	Domestic electrical appliances in general
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EUROPEAN STANDARD

EN 61255

NORME EUROPEENNE

EUROPÄISCHE NORM

October 1994

ICS 97.100

Descriptors: Household electrical appliances, heating pads, performance, characteristics, measurements

ENGLISH VERSION

Household electric heating pads
Methods for measuring performance
(IEC 1255:1994)

Coussins chauffants électriques
pour usage domestique - Méthodes
de mesure de l'aptitude à la
fonction
(CEI 1255:1994)

Elektrische Haushalt-Heizkissen
Prüfung zur Bestimmung der
Gebrauchseigenschaften
(IEC 1255:1994)

This European Standard was approved by CENELEC on 1994-07-05.
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CENELEC

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

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FOREWORD

The text of document 59C(CO)50, as prepared by Sub-Committee 59C: Heating appliances, of IEC Technical Committee 59: Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote in February 1994.

The reference document was approved by CENELEC as EN 61255 on 5 July 1994.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1995-07-01
- latest date of withdrawal of
conflicting national standards (dow) 1995-07-01

ENDORSEMENT NOTICE

The text of the International Standard IEC 1255:1994 was approved by CENELEC as a European Standard without any modification.

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**Coussins chauffants électriques pour usage
domestique –
Méthodes de mesure de l'aptitude à la fonction**

iTeh STANDARD PREVIEW
**Household electric heating pads –
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD ELECTRIC HEATING PADS – METHODS FOR MEASURING PERFORMANCE

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.

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International standard IEC 1255 has been prepared by sub-committee 59C: Heating appliances, of IEC technical committee 59: Performance of household electrical appliances.

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

DIS	Report on voting
59C(CO)50	59C(CO)52

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

In this standard, the following print types are used:

- *test specifications: in italic type*
- notes: in small roman type
- other text: in roman type

Words in **bold** in the text are defined in clause 3.

HOUSEHOLD ELECTRIC HEATING PADS – METHODS FOR MEASURING PERFORMANCE

1 Scope

This standard applies to electric **heating pads** for household use.

This standard defines the main performance characteristics of electric **heating pads** and specifies methods for measuring these characteristics, for the information of users.

This standard does not specify values for performance characteristics.

NOTE - This standard does not deal with safety requirements (IEC 967*).

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

[https://standards.iteh.ai/catalog/standards/sist/bc5e0bfl-fc5a-4ff-f-854a-](https://standards.iteh.ai/catalog/standards/sist/bc5e0bfl-fc5a-4ff-f-854a-2c7eb7be09/sist-en-61255-1998)

ISO 2439:1980, *Polymeric materials, cellular flexible – Determination of hardness (indentation technique)*.

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 **heating pad**: Appliance comprising a substantially flat **flexible part** having a **heated area**, measured on one face only, not exceeding 0,2 m² and which is designed for the local application of heat to the human body.

3.2 **flexible part**: All layers of material forming the permanent enclosure of the appliance together with the heating element, thermostats and all other current-carrying parts contained therein.

NOTE - The **flexible part** may be inside a detachable cover.

* IEC 967: 1988, *Safety of electrically heated blankets, pads and similar flexible heating appliances for household use*.

3.3 heated area: That area of the **flexible part** enclosed within the outer perimeter of the heating element. It includes the **flexible part** outside the perimeter up to a width equal to 0,5 times the average distance between adjacent parallel runs of the heating element.

NOTES

1 The **heated area** includes the return length of the heating element if the average distance between this part and the adjacent heating element does not exceed the average distance between adjacent parallel runs of the heating element.

2 If the **heating pad** has two or more **heated areas**, the surface between the two areas is considered to be part of the **heated area**, if at any place the distance between the two heating elements does not exceed 1,5 times the average distance between adjacent parallel runs of the heating element.

4 Classification of heating pads

4.1 *According to means of temperature regulation:*

- **heating pad** without any control;
- **heating pad** with a control having continuously variable settings;
- **heating pad** with a control having step settings.

4.2 *According to the type of supply:*

- **heating pad** for direct connection to the supply mains;
- extra low voltage **heating pad**.

NOTE - An extra low voltage **heating pad** has a rated voltage not exceeding 24 V.

4.3 *According to their application:*

- **heating pad** for dry application;
- **heating pad** for wet application.

5 List of measurements

Performance is determined by means of the following measurements:

- dimensions and mass (clause 7);
- evenness of temperature (clause 8);
- heating-up time (clause 9);
- cyclic variation (clause 10).

6 General conditions for measurements

Unless otherwise specified, measurements are made under the following conditions:

Test room:

The tests are carried out in a draught-free room in which the ambient temperature is maintained at 20 °C ± 5 °C.