

# SLOVENSKI STANDARD oSIST prEN IEC 60350-2:2024

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Gospodinjski električni kuhalni aparati - 2. del: Kuhalne plošče - Metode za merjenje funkcionalnosti

Household electric cooking appliances - Part 2: Hobs - Methods for measuring performance

Elektrische Kochgeräte für den Hausgebrauch - Teil 2: Kochfelder - Verfahren zur Messung der Gebrauchseigenschaften

Appareils de cuisson électrodomestiques - Partie 2: Tables de cuisson - Méthodes de mesure de l'aptitude à la fonction

Ta slovenski standard je istoveten z: prEN IEC 60350-2:2024

ICS:

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pečice in podobni aparati

Cooking ranges, working tables, ovens and similar

appliances

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### 59K/395/CDV

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IEC SC 59K : PERFORMANCE OF HOUSEHOL	D AND SIMILAR ELECTR	ICAL COOKING APPLIA	NCES
SECRETARIAT:		SECRETARY:	
Germany		Ms Susanne Stolz	
OF INTEREST TO THE FOLLOWING COMMITTEES:		PROPOSED HORIZON	TAL STANDARD:
TC 59		_	
		in this CDV to the se	equested to indicate their interest, if any, ecretary.
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Submitted for CENELEC parallel voting  □ Not submitted for CENELEC parallel voting			
Attention IEC-CENELEC parallel voting	ocumen		W
The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for			
The CENELEC members are invited to CENELEC online voting system.	o vote through the		40dd8de366/osist-pren-iec-60350-2
This document is still under study and su			
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TITLE:			
Household electric cooking applian	nces - Part 2: Hobs	s - Methods for me	easuring performance
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#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

# HOUSEHOLD ELECTRIC COOKING APPLIANCES - PART 2: HOBS - METHODS FOR MEASURING PERFORMANCE -

#### **FOREWORD**

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IEC 60350-2 has been prepared by subcommittee 59K: Performance of household and similar electrical cooking appliances, of IEC technical committee TC 59: Performance of household and similar electrical appliances. It is an International Standard.

This third edition cancels and replaces the second edition published in 2017 and Amendment 1:2021. This edition constitutes a technical revision.

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

- new definitions for portable hob (3.25), hob with down draft system (3.24) and low power modes are amended in Clause 3;
- revision of Clause 5: Tolerance for water amount added, requirements for dimension measurement added;
- removal of 6.4 Level of solid hotplates;
- revision of Clause 7 in order to improve the application of the smoothing average;
- revision of Table 1 and Table 3 in order to amend missing tolerances:
- Ry replaced by L\* in Clause 9 and reference to IEC TS 63350;
- requirements for digital assessment in 9.1.6 removed as they are covered in IEC TS 63350;
- revision of Clause 12 Consumption measurement of low power modes;
- removal of Clause 13 Spillage capacity of hobs;
- Annex H Low-power mode measurements added;
- removal of Annex D as the shade charts are specified in IEC TS 63350;
- removal of Annex E as the calculation sheet is substituted by a supporting document located on the IEC web site;
- update of Annex F by removal of F.6, F.7 and F.8 and by adding a further possible supplier in F.4.

The text of this International Standard is based on the following documents:

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

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

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

This standard contains attached files in the form of a spreadsheet. These files are intended to be used as a complement and do not form an integral part of the standard.

A list of all parts in the IEC 60350 series, published under the general title *Household electric cooking appliances*, can be found on the IEC website.

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 <a href="https://www.iec.ch/members\_experts/refdocs">www.iec.ch/members\_experts/refdocs</a>. The main document types developed by IEC are described in greater detail at <a href="https://www.iec.ch/publications">www.iec.ch/publications</a>.

The committee has decided that the contents of this document 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

- reconfirmed,
- · withdrawn, or
- revised.

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# HOUSEHOLD ELECTRIC COOKING APPLIANCES - PART 2: HOBS - METHODS FOR MEASURING PERFORMANCE -

#### 1 Scope

This part of IEC 60350 defines methods for measuring the performance of electric hob (3.2) for household use.

Appliances covered by this document can be built-in or designed to be placed on a work surface. The hob (3.2) can be part of a cooking range (3.1) and it can have an integrated cooking fume extractor, i.e. a down-draft system.

This document defines the main performance characteristics of hob (3.2) which are of interest to the user and specifies methods for measuring these characteristics.

This document does not specify a classification or ranking for performance.

NOTE 1: Some of the tests which are specified in this document are not considered to be reproducible since the results can vary between laboratories. They are therefore intended for comparative testing purposes only.

NOTE 2: This document does not deal with safety requirements (IEC 60335-2-6 and IEC 60335-2-9).

NOTE 3: This document is also applicable for portable appliances with similar functionality that were previously covered by the withdrawn IEC 61817.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60350-1:2023, Household electrical cooking appliances - Part 1: Ranges, ovens, steam ovens and grills - Methods for measuring performance

IEC 60364-5-54, Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors

IEC 61591:2023, Cooking fume extractors - Methods for measuring performance

IEC 62301:2011, Household electrical appliances - Measurement of standby power

IEC TS 63350:2022, Household electrical appliances - Specification of the properties of a digital system for measuring the performance

IEC 63474:2023, Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment

ISO 80000-1:2009, Quantities and units - Part 1: General

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

#### 3.1

#### cooking range

appliance having a hob (3.2) and at least one oven and which may incorporate a grill

Note 1 to entry: Methods for measuring performance of ovens are described in IEC 60350-1.

[SOURCE: IEC 60350-1, 3.3]

#### 3.2

#### hob

appliance or part of an appliance which incorporates one or more **cooking zone** (3.3) and/or **cooking areas** including a control (3.12) unit

Note 1 to entry: A hob (3.2) is also known as a cooking top.

Note 2 to entry: The control (3.12) unit can be included in the **hob** (3.2) itself or integrated in a **cooking** range (3.1).

#### 3.3

#### cooking zone

limitative marking on the surface of a **hob** (3.2) where one cookware is placed and heated or an attached area to the surface

EXAMPLE: A cooking zone (3.3) can be: N IEC 60350-2:2024

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- a single zone (3.4) or a multiple zone (3.5) (see 3.4 and 3.5);
- a solid hotplate (3.6) (see 3.6);
- a tubular hotplate (3.7) (see 3.7);
- a radiant cooking zone (3.8) (see 3.8);
- an induction cooking zone (3.9) (see 3.9).

Note 1 to entry: **Cooking zones** which are used without cookware but by positioning the food directly on the surface are not included.

Note 2 to entry: A cooking zone (3.3) where the limitative markings do not clearly indicate the dimensions is considered a cooking area without limitative markings (3.10).

#### 3.4

#### single zone

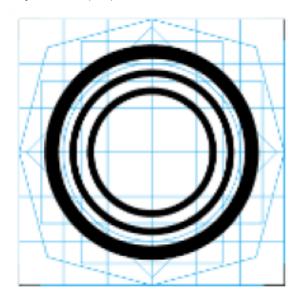
**cooking zone** (3.3) marked for one cookware size

#### 3.5

#### multiple zone

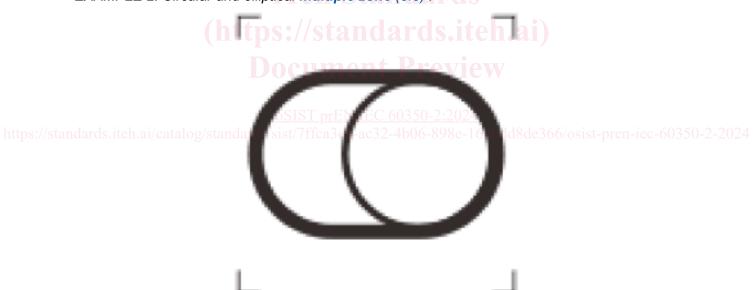
**cooking zone** (3.3) marked for more than one cookware size and shape which can be circular, elliptical or a combination

EXAMPLE 1: Circular multiple zone (3.5) for three different cookware sizes:



[IEC 60417-Pr17-001]

EXAMPLE 2: Circular and elliptical multiple zone (3.5):



[IEC 60417-5492:2002-10]

#### 3.6

#### solid hotplate

**cooking zone** (3.3) having a closed surface, which is usually constructed from cast iron, with an integrated heating element

#### 3.7

#### tubular hotplate

**cooking zone** (3.3) having a surface which is formed by the configuration of a tubular heated heating element in a substantially flat plane

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#### 3.8

#### radiant cooking zone

**cooking zone** (3.3) on which the cookware is heated by means of a radiant heating element below the glass ceramic which could have a heating ribbon, heating spiral or a tungsten wire which is located in a quartz glass bulb or combination of these

#### 3.9

#### induction cooking zone

**cooking zone** (3.3) in which the cookware is heated by means of an induction element below the glass ceramic or similar where the eddy currents are inducted in the bottom of the cookware by a magnetic field

#### 3.10

#### cooking area without limitative markings

area where cookware is placed and heated by an inducted magnetic field without limitative markings

EXAMPLE: See Figure A.1

Note 1 to entry: **Cooking area**s which are used without cookware but by positioning the food directly on the surface are not included.

Note 2 to entry: Sometimes there are one or more decoration symbols, e.g. a cross, on the **cooking area** to mark the centre position where the cookware is placed.

#### 3.11

#### cooking area with limitative markings

area where cookware is placed and heated by an inducted magnetic field where the area is marked to show the limits where more than one cookware can be used simultaneously while the cookware pieces can be used and controlled separately from each other at the same time

EXAMPLE: See Figure A.2

Note 1 to entry: **Cooking areas** which are used without cookware but by positioning the food directly on the surface are not included.

Note 2 to entry: The **cooking area** is also used combined for one cookware, even if there is more than one control (3.12).

#### 3.12

#### control

part of the **hob** (3.2) for adjusting the power or temperature respectively of a **cooking zone** (3.3) or a **cooking area** for one piece of cookware, independent from technical solution (e.g. knobs, touch controls etc.)

Note 1 to entry: The power is generally indicated as numbers, but also temperature values and symbols are possible.

Note 2 to entry: Controls (3.12)integrated outside of the **hob** (3.2) in a separate device or as part of a built-in-oven are also included.

#### 3.13

#### warming zone

area used for keeping food warm usually not used for cooking