



BSI Standards Publication

Household electric cooking appliances

Part 2: Hobs — Methods for measuring performance

National foreword

This British Standard is the UK implementation of EN 60350-2:2018+A1:2021. It is derived from IEC 60350-2:2017, incorporating amendment 1:2021. It supersedes BS EN 60350-2:2018, which will be withdrawn on 26 January 2022.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **[A1]** **[A1]**.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Household electric cooking appliances -
Part 2: Hobs - Methods for measuring performance
(IEC 60350-2:2017 , modified)

Appareils de cuisson électrodomestiques -
Partie 2: Tables de cuisson - Méthodes de mesure de
l'aptitude à la fonction
(IEC 60350-2:2017 , modifiée)

Elektrische Kochgeräte für den Hausgebrauch -
Teil 2: Kochfelder - Verfahren zur Messung der
Gebrauchseigenschaften
(IEC 60350-2:2017 , modifiziert)

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European foreword

The text of document 59K/293/FDIS, future edition 2 of IEC 60350-2, prepared by SC 59K "Performance of household and similar electrical cooking appliances" of IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60350-2:2018.

A draft amendment, which covers common modifications to IEC 60350-2 (59K/287/CDV), was prepared by CLC/TC 59X "Performance of household and similar electrical appliances" and approved by CENELEC.

The following dates are fixed:

latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-07-19
latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2021-01-19

This document supersedes EN 60350-2:2013.

An Excel 97-2003 data calculation program is available with this document for the automatic calculation of the energy consumption.

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Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60350-2:2017 are prefixed "Z".

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Regulations.

For the relationship with EU Regulations see informative Annex ZZA and Annex ZZB which are integral parts of this document.

Endorsement notice

The text of the International Standard IEC 60350-2:2017 was approved by CENELEC as a European Standard with agreed common modifications.

Foreword to amendment 1

The text of document (59K/329/FDIS), future IEC 60350-2/A1, prepared by SC 59K "Ovens and microwave ovens, cooking ranges and similar appliances" of IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60350-2:2018/A1:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-03-22
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For the relationship with EU Directive(s), see informative Annex ZZ, included in EN 60350-2:2018.

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CONTENTS

FOREWORD	6
1 Scope	8
2 Normative references	8
3 Terms and definitions	8
4 List of measurements	12
4.1 Dimensions and mass	12
4.2 Cooking zones and cooking areas.....	12
4.3 Cleaning	12
5 General conditions for the measurements.....	12
5.1 Test room	12
5.2 Electricity supply.....	12
5.3 Instrumentation and measurements	13
5.4 Positioning the appliance	13
5.5 Initial conditions.....	14
5.6 Cookware	14
5.6.1 Standardized cookware	14
5.6.2 Alternative cookware	19
6 Dimensions and mass.....	20
6.1 Overall dimensions	20
6.2 Mass of the appliance	22
6.3 Cooking zones and cooking areas.....	22
6.3.1 Number of cooking zones per hob.....	22
6.3.2 Dimensions of cooking zones	22
6.3.3 Dimensions of cooking areas	23
6.4 Level of solid hotplates	23
6.5 Distance between cooking zones	24
7 Energy consumption and heating up time	24
7.1 General.....	24
7.2 Purpose	24
7.3 Determine a cookware set to assess a hob with cooking zones.....	24
7.4 Positioning the cookware on a cooking zone.....	25
7.5 Procedure for measuring the energy consumption of a cooking process.....	26
7.5.1 Preparation.....	26
7.5.2 Preliminary measurements	26
7.5.3 Measuring the energy consumption	28
7.5.4 Evaluation and calculation	29
7.6 Procedure for measuring the heating up time	30
8 Ability to control the temperature of a load.....	31
8.1 Lower control position	31
8.1.1 Purpose	31
8.1.2 Cookware, positioning and ingredients.....	31
8.1.3 Procedure.....	31
8.1.4 Assessment.....	32
8.2 Temperature overshoot of hotplates.....	32
8.2.1 Purpose	32

8.2.2	Ingredients and cookware	32
8.2.3	Procedure.....	32
8.2.4	Assessment.....	33
9	Heat distribution and heat supply.....	33
9.1	Measuring the heat distribution	33
9.1.1	Test purpose	33
9.1.2	Discs	33
9.1.3	Pre-test for determining the setting.....	34
9.1.4	Preparation of the disc for the main test	35
9.1.5	Main test	36
9.1.6	Assessment.....	36
9.2	Continuous frying.....	40
9.2.1	Purpose.....	40
9.2.2	Specification of the frying pan.....	41
9.2.3	Recipe and amounts	41
9.2.4	Pre-test	42
9.2.5	Main test	43
9.2.6	Assessment.....	44
10	Heat performance of cooking zones.....	45
10.1	Purpose	45
10.2	Procedure	45
11	Smallest detected diameter for induction cooking zones	46
11.1	Purpose	46
11.2	Procedure	47
12	Power measurement of low power modes	47
13	Spillage capacity of hobs	48
Annex A (normative) Further requirements for measuring the energy consumption and heating up time for cooking areas		49
A.1	General.....	49
A.2	Hob with cooking area	49
A.2.1	General	49
A.2.2	Cooking area without limitative marking.....	49
A.2.3	Hob with cooking area with limitative marking	50
A.2.4	Hob with cooking zones and cooking areas.....	51
A.3	Positioning on a cooking area	51
A.3.1	General	51
A.3.2	Positioning on a cooking area without limitative markings	51
A.3.3	Positioning on a cooking area with limitative markings.....	52
Annex B (informative) Aids for measuring the energy consumption according to Clause 7		56
B.1	Fixing the temperature measurement instrument to the lid – Example	56
B.2	Marking the lowest possible simmering power setting	56
Annex C (informative) Examples how to select and position the cookware for measurements according to Clause 7 and Annex A		58
C.1	Example 1 – Cooking zones.....	58
C.2	Example 2 – cooking zones combined with cooking area with limitative markings.....	59
C.3	Example 3 – cooking area with limitative markings > 3 controls with the area of control in front.....	62

C.4	Example 4 – cooking area with limitative markings > 3 controls with the area of control at the side	65
Annex D	(normative) Shade chart	68
Annex E	(informative) Data and calculation sheet: energy consumption of a cooking process (see Clause 7 and Annex A)	70
Annex F	(informative) Addresses of suppliers	71
F.1	General.....	71
F.2	Disc material (C45) for measuring the smallest detected diameter	71
F.3	Stainless steel for bottom material of the standardized cookware.....	71
F.4	Cookware for measuring the energy consumption and heating up time.....	71
F.5	Disc for measuring the heat distribution	71
F.6	Lamp for digital measurement systems	71
F.7	Digital measurement system	72
F.8	Testcharts for checking the resolution of the imaging system.....	72
Annex G	(informative) Example for assessing the lower control position	73
G.1	General.....	73
G.2	Criteria.....	73
Annex H	(informative) Pre-test for determining the simmering setting regarding the measurement of energy consumption.....	74
H.1	Purpose	74
H.2	Procedure to determine an adequate simmering setting	74
Bibliography	76
Figure 1	– Standardized cookware	19
Figure 2	– Dimensions of appliances.....	21
Figure 3	– Dimensions of built-in hobs	22
Figure 4	– Device for checking the level of solid hotplates	23
Figure 5	– Overshoot measurement	26
Figure 6	– Energy consumption measurement process for a cooking process	28
Figure 7	– Diametral lines	40
Figure 8	– Disc to determine the smallest detected diameter	47
Figure A.1	– Layout for a hob with cooking area without limitative marking – Example.....	49
Figure A.2	– Layouts for a hob with a cooking area with limitative marking – Examples	50
Figure A.3	– Drawing layer.....	52
Figure A.4	– Position a cookware set on a cooking area with limitative markings ≤ 3 controls – Example	53
Figure A.5	– Position a cookware set on a cooking area with limitative markings > 3 controls – Example	55
Figure B.1	– Position of the temperature measurement instrument.....	56
Figure B.2	– Polar coordinate paper – Example	57
Figure C.1	– Example 1: tubular hotplates, solid hotplates, radiant cooking zone or induction cooking zone	58
Figure C.2	– Example 1: selecting and positioning of cookware	59
Figure C.3	– Example 2: induction or radiant cooking zones combined with a cooking area with limitative markings.....	60
Figure C.4	– Example 2: selecting and positioning of cookware	61

Figure C.5 – Example 3: Cooking area with limitative markings > 3 controls with the area of the control in front.....	62
Figure C.6 – Example 3: procedure how to shift the cookware into the correct position – Step 1.....	63
Figure C.7 – Example 3: Procedure how to shift the cookware into the correct position – Step 2.....	64
Figure C.8 – Example 4: Cooking area with limitative markings > 3 controls with the area of the control at the side	65
Figure C.9 – Example 4: procedure how to shift the cookware into the correct position – Step 1.....	66
Figure C.10 – Example 4: procedure how to shift the cookware into the correct position – Step 2.....	67
Table 1 – Instruments	13
Table 2 – Measurements.....	13
Table 3 – Sizes of standardized cookware and water amounts.....	16
Table 4 – Criteria for selecting the cookware set regarding cooking zones.....	25
Table 5 – Amount of oil.....	31
Table 6 – Specifications for discs used for measuring the heat distribution	34
Table 7 – maximum time t_{\max} for each size of disc	38
Table 8 – Ingredients	42
Table 9 – Quantities for heat performance test.....	45
Table 10 – Frying times for potato chips	46
Table 11 – Quantity of batter per pancake	42
Table 12 – Example for the assessment of pancakes.....	44
Table A.1 – Criteria for the cookware set for measuring cooking areas without limitative marking.....	50
Table A.2 – Criteria for the cookware set for measuring cooking areas with limitative marking.....	51
Table D.1 – Classification of shade numbers regarding R_y	68
Table D.2 – Examples for the shade charts regarding L^* , R_y and the specification of the limiting samples H_{limit} and H_{lower}	69

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD ELECTRIC COOKING APPLIANCES –

Part 2: Hobs – Methods for measuring performance

FOREWORD

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International Standard 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.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) terms and definitions revised and new definitions added (see 3);
- b) following the new market trend, requirements related to so-called flexible and free induction zones – in this document named as **cooking areas** – are added;
- c) specification for standardized and alternative cookware is introduced (see 5.6);
- d) measurement procedure reflecting a household-like cooking process for measuring the energy consumption is introduced (see Clause 7 and Annex A);

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- e) revision of measurement procedure for determining the accuracy of control (see Clause 8);
- f) new reproducible measurement procedure for assessing the heat distribution (see Clause 9);
- g) additional requirements (according to IEC 62301:2011) on how to measure low-power modes.

In this document, terms in bold characters are defined in Clause 3.

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.

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

FDIS	Report on voting
59K/293/FDIS	59K/294/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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 **hobs** for household use.

Appliances covered by this document can be built-in or designed to be placed on a work surface. The **hob** can also be a part of a cooking range.

A1 Text deleted **A1**

This document defines the main performance characteristics of **hobs** 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).

A1 NOTE 3 This document is also applicable for portable appliances with similar functionality that were previously covered by the withdrawn IEC 61817. **A1**

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 62301:2011, *Household electrical appliances – Measurement of standby power*

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

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.

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

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

3.1

cooking range

appliance having a **hob** 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.