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Project No. 2024/01565

Responsible committee: CPL/59 Performance of household electrical appliances

Interested committees:

Title: BS EN IEC 60350-1/AMD1 Household electric cooking appliances Part 1: Ranges, ovens, steam ovens and grills -
Methods for measuring performance

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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THIS DRAFT IS NOT CURRENT BEYOND 4 September 2024**

This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Responsible Committee Secretary: **Mr Andrew Barrett (BSI)**
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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 60350-1/AMD1 ED3

DATE OF CIRCULATION:

2024-07-12

CLOSING DATE FOR VOTING:

2024-10-04

SUPERSEDES DOCUMENTS:

59K/390/RR

IEC SC 59K : PERFORMANCE OF HOUSEHOLD AND SIMILAR ELECTRICAL COOKING APPLIANCES

SECRETARIAT:

Germany

SECRETARY:

Ms Susanne Stolz

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC☒ ENVIRONMENT☐ QUALITY ASSURANCE☐ SAFETY☒ SUBMITTED FOR CENELEC PARALLEL VOTING**Attention IEC-CENELEC parallel voting**

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Amendment 1 - Household electric cooking appliances - Part 1: Ranges, ovens, steam ovens and grills - Methods for measuring performance

PROPOSED STABILITY DATE: 2025

NOTE FROM TC/SC OFFICERS:

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HOUSEHOLD ELECTRIC COOKING APPLIANCES –

Part 1: Ranges, ovens, steam ovens and grills – Methods for measuring performance

1 Scope

Cancel the 2nd dash “ovens with reciprocating trays or turntable” in NOTE 2

2 Normative References

Add this dated reference:

IEC 60705:202x¹, *Household microwave ovens – Methods for measuring performance*

3 Terms and definitions

Add an additional definition and re-number accordingly

3.x

combination microwave oven

appliance which can be operated at least

- by **microwave function** and thermal function, hot steam or steam

- or by **combination microwave function**

[Source: IEC 60705, 3.3 modified, Note to entry has been removed.]

Change the definition 3.17 as follows:

3.17

standby mode

condition where the appliance is connected to the mains and provides only one or more of the following functions, which may persist for an indefinite duration:

- a) reactivation function;
- b) reactivation function and only an indication of enabled reactivation function;
- c) information or status display.

8 Energy consumption and time for heating a load

Add following sentences and note at the end of 8.1:

For measuring the energy consumption in a **combination microwave oven** fitted with a turntable deviating requirements regarding the test set up are specified in Annex H.

NOTE The definition for turntable of IEC 60705 applies.

Annex K shows the expanded uncertainties for measuring the energy consumption.

8.3.3 Preparation

Change the 5th subclause, last sentence as follows:

¹ CDV stage

38 The amount of absorbed water shall be as specified in Clause C.1.

39 **8.5.6 Determining the s -factor**

40 *Replace 8.5.6 as follows:*

41 In the case that the heating mode is designated as a **heating function**, the s -factor shall be determined
42 in addition to the c -factor.

43 Determine the s_k -factor for each measurement.

44 The s_k -factor is the ratio between the observer temperatures measured in phase 1 in the last 30 % of
45 the whole phase (= β) and the observer temperature in phase 1 in the second last 30 % (= α), calculated
46 as shown in Formulae (1), (2) and (3):

$$s_k = \frac{\bar{T}_{o1,k,\beta}}{\bar{T}_{o1,k,\alpha}} \quad (1)$$

47

48 Where:

$$\bar{T}_{o1,k,\alpha} = \frac{1}{0,3i_k} \sum_{j=0,4i_k}^{0,7i_k} T_{o1,k,j} \quad (2)$$

$$\bar{T}_{o1,k,\beta} = \frac{1}{0,3i_k} \sum_{j=0,7i_k}^{i_k} T_{o1,k,j} \quad (3)$$

49

50 Where:

51 – i_k is determined by $i_k = \lfloor t_k \times f_s \rfloor$;

52 – α is i_k from 0,4 i_k until 0,7 i_k ;

53 – β is i_k from 0,7 i_k until i_k .

54 The s_1 , s_2 and s_3 for the **heating function** is rounded to two decimal places.

55 For calculating the s -factor, s_1 , s_2 and s_3 are averaged and rounded to two decimal places, as shown
56 in formula 18.

$$s = \frac{s_1 + s_2 + s_3}{3} \quad (18)$$

57 The averaged value s and the single values, s_1 , s_2 and s_3 are reported.

58 **8.6.4 s -factor**

59 *Replace 8.6.4 as follows:*

60

61 The s_k -factors and the s -factor are used to show that a function designated as a **heating function** does
62 not use residual heat.