
Naprave, trdna goriva in naprave za vžiganje žara - 2. del: Lesno oglje in briketi lesnega oglja za žar - Zahteve in preskusne metode

Appliances, solid fuels and firelighters for barbecuing - Part 2: Barbecue charcoal and barbecue charcoal briquettes - Requirements and test methods

Geräte, feste Brennstoffe und Anzündhilfen zum Grillen - Teil 2: Grill-Holzkohle und Grill-Holzkohlebriketts - Anforderungen und Prüfverfahren

Appareils, combustibles solides et allume-feu pour la cuisson au barbecue - Partie 2 : Charbon de bois et briquettes de charbon de bois pour barbecue - Exigences et méthodes d'essai

Ta slovenski standard je istoveten z: EN 1860-2:2023

ICS:

75.160.10	Trda goriva	Solid fuels
97.040.20	Štedilniki, delovni pulti, pečice in podobni aparati	Cooking ranges, working tables, ovens and similar appliances

SIST EN 1860-2:2023**en,fr,de**

EUROPEAN STANDARD

EN 1860-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2023

ICS 75.160.10

Supersedes EN 1860-2:2005

English Version

Appliances, solid fuels and firelighters for barbecuing - Part 2: Barbecue charcoal and barbecue charcoal briquettes - Requirements and test methods

Appareils, combustibles solides et allume-feu pour la
cuisson au barbecue - Partie 2 : Charbon de bois et
briquettes de charbon de bois pour barbecue -
Exigences et méthodes d'essai

Geräte, feste Brennstoffe und Anzündhilfen zum Grillen
- Teil 2: Grill-Holzkohle und Grill-Holzkohlebriketts -
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 21 May 2023.

CEN 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 CEN-CENELEC Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Requirements	9
4.1 Requirements for barbecue charcoal	9
4.1.1 Fixed carbon.....	9
4.1.2 Ash content.....	9
4.1.3 Total moisture.....	9
4.1.4 Granulation.....	9
4.2 Requirements for barbecue charcoal briquettes	10
4.2.1 Fixed carbon.....	10
4.2.2 Ash content.....	10
4.2.3 Total moisture.....	10
4.2.4 Granulation.....	10
4.2.5 Binder.....	10
4.3 Requirements for impregnated barbecue charcoal and impregnated barbecue charcoal briquettes	11
4.4 Inadmissible additions	11
4.4.1 Foreign substances.....	11
4.4.2 Microscopic analysis.....	11
4.4.3 Chemical burning sustainers.....	11
5 Sampling	11
5.1 Sampling for granulometry.....	11
5.2 Sampling for testing ash, moisture, volatile and microscopic analyses.....	11
6 Test methods	12
6.1 Fixed carbon.....	12
6.2 Volatiles.....	12
6.3 Ash content.....	12
6.4 Total moisture.....	12
6.5 Inadmissible additions.....	12
6.6 Granulometry.....	13
6.7 Determination of impregnant content.....	13
6.8 Test report.....	13
7 Marking	13
7.1 Consumer communication on the packaging of barbecue charcoal and barbecue charcoal briquettes.....	14
7.2 Consumer communication on packaging of impregnated barbecue charcoal or barbecue charcoal briquettes.....	14
7.2.1 Consumer instructions on “just light the bag” products.....	14
7.2.2 Consumer instructions on “just light the charcoal” products.....	15

Annex A (informative) Determination of the volume of barbecue charcoal	18
A.1 General	18
A.2 Principle	18
A.3 Appliances	18
A.4 Sampling	18
A.5 Method of operation	18
A.6 Result of determination	18
Annex B (normative) Determination of moisture content for impregnated barbecue charcoal and for impregnated barbecue charcoal briquettes	19
B.1 General	19
B.2 Principle	19
B.3 Reagents	19
B.4 Apparatus	19
B.5 Preparation of sample	20
B.6 Procedure	20
B.6.1 Calibration of apparatus	20
B.6.2 Test portion	21
B.6.3 Determination	21
B.7 Expression of results	21
B.8 Precision of the method	22
B.8.1 Repeatability	22
B.8.2 Reproducibility	22
B.9 Test report	22
Bibliography	23

EN 1860-2:2023 (E)

European foreword

This document (EN 1860-2:2023) has been prepared by Technical Committee CEN/TC 281 “Appliances, solid fuels and firelighters for barbecuing”, the secretariat of which is held by UNE.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2023, and conflicting national standards shall be withdrawn at the latest by June 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1860-2:2005.

EN 1860-2:2023 includes the following significant technical changes with respect to EN 1860-2:2005:

- a) the Introduction has been removed;
- b) Clause 1, *Scope*, has been updated – the second and the third paragraphs have been added;
- c) Clause 2, *Normative references*, has been updated;
- d) Clause 3, *Terms and definitions*, has been revised and new terms were added;
- e) Clause 4, *Requirements*, has been revised and partly reorganised, so that
 - requirements on impregnated barbecue charcoal and impregnated barbecue charcoal briquettes are now specified in 4.3;
 - specifications on granulation now differentiate between barbecue charcoal, table grill charcoal and restaurant charcoal;
 - the section on volatiles has been removed;
 - requirements regarding bulk density have been removed;
 - requirements on inadmissible additions have been revised and clarified;
- f) Clause 5, *Sampling*, has been revised and shortened;
- g) Clause 6, *Test methods*, has been revised and shortened;
- h) Clause 7, *Marking*, has been revised, a note referring to the CLP-Regulation (Regulation (EC) No 1272/2008) and Figure 1 has been added;
- i) Annex A has been changed from normative to informative and A.7 (Inspection certificate) has been removed.

A list of all parts in the EN 1860 series, published under the general title *Appliances, solid fuels and firelighters for barbecuing*, can be found on the CEN website.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 1860-2:2023](https://standards.iteh.ai/catalog/standards/sist/92468f11-6a70-4547-8a6c-7242ccb99616/sist-en-1860-2-2023)

<https://standards.iteh.ai/catalog/standards/sist/92468f11-6a70-4547-8a6c-7242ccb99616/sist-en-1860-2-2023>

EN 1860-2:2023 (E)**1 Scope**

This document specifies the requirements and test methods for barbecue charcoal and barbecue charcoal briquettes for use in barbecue appliances.

This document is intended to reduce the risks which can occur during and through barbecuing with solid fuels.

Barbecue charcoal in accordance with this document refers to the solid remainder of dry distillation of wood or other vegetable matter.

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.

EN 1860-3:2023, *Appliances, solid fuels and firelighters for barbecuing — Part 3: Firelighters for igniting solid fuels for use in barbecues and grill applications — Requirements and test methods*

ISO 562, *Hard coal and coke — Determination of volatile matter*

ISO 589, *Hard coal — Determination of total moisture*

ISO 975, *Brown coals and lignites — Determination of yield of benzene-soluble extract — Semi-automatic method*

ISO 1171, *Solid mineral fuels — Determination of ash*

ISO 1953, *Hard coal — Size analysis by sieving*

ISO 3310-2, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate*

ISO 7404-2, *Methods for the petrographic analysis of coals — Part 2: Methods of preparing coal samples*

ISO 7404-3, *Methods for the petrographic analysis of coals — Part 3: Method of determining maceral group composition*

ISO 13909-4:2016, *Hard coal and coke — Mechanical sampling — Part 4: Coal — Preparation of test samples*

ISO 18283:2022, *Coal and coke — Manual sampling*

3 Terms and definitions

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

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

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

3.1

barbecue charcoal

solid remainder of carbonization of wood or other vegetable matter that does not spit or spark abnormally when burning and has not been artificially chemically treated or artificially chemically prepared whereby the main constituent is carbon and the ash content is minimal

3.2

table grill charcoal

barbecue charcoal with a granulation adapted to the use in small grills

Note 1 to entry: For granulation of table grill charcoal see 4.1.4.2.

3.3

restaurant charcoal

barbecue charcoal with a granulation adapted to the use in large barbecues and professional applications

Note 1 to entry: For granulation of restaurant charcoal see 4.1.4.3.

3.4

barbecue charcoal briquette

compressed barbecue charcoal particles with a food-compatible binder or without a binder

3.5

impregnated barbecue charcoal

barbecue charcoal prepared for ignition by adding a liquid, thickened liquid or gel firelighter

3.6

impregnated barbecue charcoal briquette

barbecue charcoal briquettes prepared for ignition by adding a solid, liquid, thickened liquid or gel firelighter

3.7

solid firelighter

solid substance or preparation to be used to ignite solid barbecue fuels in barbecue and grill appliances, that is readily ignitable by the application of a naked flame

[SOURCE: EN 1860-3:2023, 3.1]

3.8

liquid firelighter

liquid substance or preparation to be used to ignite solid barbecue fuel used in barbecue and grill appliances when supported on a solid substrate, which is readily ignitable by the application of a naked flame

[SOURCE: EN 1860-3:2023, 3.2]

EN 1860-2:2023 (E)**3.9****thickened liquid firelighter**

thickened liquid substance or preparation to be used to ignite solid barbecue fuel used in barbecue and grill appliances when supported on a solid substrate, which is readily ignitable by the application of a naked flame

[SOURCE: EN 1860-3:2023, 3.3]

3.10**gel firelighter**

gel substance or preparation to be used to ignite solid barbecue fuel used in barbecue and grill appliances when supported on a solid substrate, which is readily ignitable by the application of a naked flame

[SOURCE: EN 1860-3:2023, 3.4]

3.11**fixed carbon**

carbon remaining after the removal of volatile matter and ash from barbecue charcoal or barbecue charcoal briquettes on dry basis

3.12**volatile matter**

loss in mass less that due to moisture, when barbecue charcoal or barbecue charcoal briquettes is heated out of contact with air under specific conditions

Note 1 to entry: The specific conditions are described in 6.2.

3.13**ash**

solid residue after combustion of barbecue charcoal or barbecue charcoal briquettes

3.14**total moisture**

<barbecue charcoal and barbecue charcoal briquettes> water contained in the barbecue charcoal and the barbecue charcoal briquettes which is driven off at 105 °C

3.15**total moisture**

<impregnated barbecue charcoal and impregnated barbecue charcoal briquettes> water contained in the impregnated barbecue charcoal and the impregnated barbecue charcoal briquettes which is removed by distillation with toluene

3.16**granulation**

fraction of the particle size distribution as specified with reference to one or more screens with specified sizes

Note 1 to entry: Expressed as mass fraction in percent of the barbecue charcoal.

3.17**binder**

product which when added to barbecue charcoal particles holds these together in a permanent solid mass

3.18**chemical burning sustainer**

chemical added as agent to sustain burning after ignition

3.19**repeatability**

results of duplicate determinations, carried out at different times in the same laboratory by the same operator using the same apparatus on duplicate samples taken from the same gross sample at the last stage of sample preparation

3.20**reproducibility**

results of duplicate determinations, carried out in each of two different laboratories on representative portions taken from the same gross sample at the last stage of sample preparation

4 Requirements**4.1 Requirements for barbecue charcoal****4.1.1 Fixed carbon**

The fixed carbon of barbecue charcoal on dry basis shall be calculated in accordance with 6.1 and shall be at least 75 % by mass.

4.1.2 Ash content

The ash content of barbecue charcoal on dry basis shall be tested in accordance with 6.3 and shall not exceed 8 % by mass.

4.1.3 Total moisture

The total moisture content of barbecue charcoal shall be tested in accordance with 6.4 and shall not exceed 8 % by mass.

4.1.4 Granulation**4.1.4.1 Barbecue charcoal**

When analysed in accordance with 6.6, the particle size of the barbecue charcoal shall meet the following criteria:

- not larger than 150 mm;
- at least 80 % by total mass shall be larger than 20 mm with not more than 10 % by total mass shall be larger than 80 mm;
- less than 20 % by total mass may be 20 mm or smaller with not more than 7 % by total mass may be smaller than 10 mm.