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**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

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**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

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

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

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 281.

If this draft becomes a European Standard, 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.

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

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

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 oSIST prEN 1860-2:2022

**prEN 1860-2:2022 (E)****European foreword**

This document (prEN 1860-2:2022) 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 document is currently submitted to the CEN Enquiry.

This document will supersede EN 1860-2:2005.

In comparison with the previous edition EN 1860-2:2005, the following technical modifications have been made:

- 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 technically revised;
- 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.

## 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.

prEN 1860-3:2022, *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/DIS 18283:2020, *Coal and coke — Manual sampling*

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

ISO 5069-2:1983, *Brown coals and lignites — Principles of sampling — Part 2: Sample preparation for determination of moisture content and for general analysis*

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*

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

## prEN 1860-2:2022 (E)

**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 table grill 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

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**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: prEN 1860-3:2022, 3.1]

**3.8****liquid, thickened liquid or gel firelighter**

liquid, thickened liquid or 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: prEN 1860-3:2022, 3.2]

**3.9****fixed carbon**

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



**3.10****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.

**3.11****ash**

solid residue after combustion of barbecue charcoal or barbecue charcoal briquettes

**3.12****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

**3.13****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

**3.14****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 percentage by weight of the barbecue charcoal.

**3.15****binder**

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

**3.16****chemical burning sustainer**

chemical added as oxidising agent to sustain burning

EXAMPLES: Nitrates, nitrites, borax

**3.17****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

**3.18****reproducibility**

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

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## 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 weight.

#### 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 weight.

#### 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 weight.

#### 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 be:

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

##### 4.1.4.2 Table grill charcoal

When analysed in accordance with 6.6, the particle size of the table grill charcoal shall be:

- not greater than 40 mm;
- at least 90 % by total weight shall be greater than 8 mm with not more than 10 % by total weight shall be larger than 20 mm;
- less than 10 % by total weight may be 8 mm or smaller.

##### 4.1.4.3 Restaurant charcoal

When analysed in accordance with 6.6, the particle size of the restaurant charcoal shall be:

- not greater than 200 mm;
- at least 80 % by total weight shall be greater than 40 mm with not more than 10 % by total weight shall be larger than 150 mm;
- less than 20 % by total weight may be 40 mm or smaller with not more than 10 % by total weight may be smaller than 20 mm.

## 4.2 Requirements for barbecue charcoal briquettes

### 4.2.1 Fixed carbon

The fixed carbon of barbecue charcoal briquettes on dry basis shall be calculated in accordance with 6.1 and shall be at least 60 % by total weight.

### 4.2.2 Ash content

The ash content of barbecue charcoal briquettes on dry basis shall be tested in accordance with 6.3 and shall be not greater than 18 % by weight.

### 4.2.3 Total moisture

The total moisture content of barbecue charcoal briquettes shall be tested in accordance with 6.4 and shall not be greater than 8 % by weight.

### 4.2.4 Granulation

When analysed in accordance with 6.6, the percentage of granules less than 20 mm shall not be greater than 10 %.

### 4.2.5 Binder

The binder shall cause no health hazards when its combustion gases come into contact with food and the binder itself shall be food grade quality.

## 4.3 Impregnated barbecue charcoal and impregnated barbecue charcoal briquettes

Impregnated barbecue charcoal and impregnated barbecue charcoal briquettes shall fulfil the requirements for barbecue charcoal and barbecue charcoal briquettes, respectively, together with the requirements of prEN 1860-3:2022, Clause 4.

## 4.4 Inadmissible additions

### 4.4.1 Foreign substances

Adding foreign substances to the barbecue charcoal is not allowed.

### 4.4.2 Microscopic analysis

Microscopic analysis of the sample in accordance with 6.5 should not detect more than 4 % Vol of any substances different from those substances resulting from dry distillation of wood or other vegetable matter or permissible binder used in barbecue charcoal briquettes.

Examples for substances resulting from dry distillation other than barbecue charcoal or binder used in barbecue briquettes, if applicable, are

- wood or vegetable matter residues that are not completely dry distilled (pyrolyzed);
- mineral substances stemming from the production and handling processes.

Not more than 1 % Vol. in total may be from the following or similar substances: fossil coals and derivatives thereof, petroleum, coke, pitch, plastic, glass, slag, rust, splinters of metal, artificial mineral products.