



NSAI
Standards

Irish Standard
I.S. EN ISO 17225-5:2021

Solid biofuels - Fuel specifications and classes - Part 5: Graded firewood (ISO 17225-5:2021)

I.S. EN ISO 17225-5:2021

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National Foreword

I.S. EN ISO 17225-5:2021 is the adopted Irish version of the European Document EN ISO 17225-5:2021, Solid biofuels - Fuel specifications and classes - Part 5: Graded firewood (ISO 17225-5:2021)

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 17225-5

July 2021

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Supersedes EN ISO 17225-5:2014

English Version

Solid biofuels - Fuel specifications and classes - Part 5:
Graded firewood (ISO 17225-5:2021)

Biocombustibles solides - Classes et spécifications des
combustibles - Partie 5: Classes de bois de chauffage
(ISO 17225-5:2021)

Biogene Festbrennstoffe - Brennstoffspezifikationen
und -klassen - Teil 5: Klassifizierung von Stückholz
(ISO 17225-5:2021)

This European Standard was approved by CEN on 12 June 2021.

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EN ISO 17225-5:2021 (E)

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European foreword

This document (EN ISO 17225-5:2021) has been prepared by Technical Committee ISO/TC 238 "Solid biofuels" in collaboration with Technical Committee CEN/TC 335 "Solid biofuels" the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by January 2022, and conflicting national standards shall be withdrawn at the latest by January 2022.

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 ISO 17225-5:2014.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 17225-5:2021 has been approved by CEN as EN ISO 17225-5:2021 without any modification.

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INTERNATIONAL STANDARD

**ISO
17225-5**

Second edition
2021-07

Solid biofuels — Fuel specifications and classes —

Part 5: Graded firewood

*Biocombustibles solides — Classes et spécifications des
combustibles —*

Partie 5: Classes de bois de chauffage



Reference number
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ISO 17225-5:2021(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 238, *Solid biofuels*.

This second edition cancels and replaces the first edition (ISO 17225-5:2014), which has been technically revised. The main changes compared to the previous edition are as follows:

- [Figure 1](#) and dimensions in [Table 1](#) have been changed;
- [Annex C](#) has been changed.

A list of all parts in the ISO 17225 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The objective of the ISO 17225 series is to provide unambiguous and clear classification principles for solid biofuels; to serve as a tool to enable efficient trading of biofuels; to enable good understanding between seller and buyer as well as a tool for communication with equipment manufacturers. It also facilitates authority permission, procedures and reporting.

This document supports the use of graded firewood for residential, small commercial and public buildings which require classified firewood quality.

The residential, small commercial and public building appliances require higher quality fuel for the following reasons:

- Small-scale equipment does not usually have advanced controls and flue gas cleaning.
- Appliances are not generally managed by professional heating engineers.
- Appliances are often located in residential and populated districts.

NOTE 1 Firewood produced according to this document can be used in stoves, fireplaces, cookers, room heaters and multifired sauna stoves, which are tested according to European standards EN 13229,^[1] EN 12815,^[2] EN 12809,^[3] EN 13240,^[4] EN 15250^[5] and EN 15821,^[6] and boilers systems tested according to EN 303-5^[7].

NOTE 2 For individual contracts ISO 17225-1 can be used.

Although this document may be obtained separately, it requires a general understanding of the standards based on and supporting ISO 17225-1. It is recommended to obtain and use ISO 17225-1 in conjunction with this document.

Solid biofuels — Fuel specifications and classes —

Part 5: Graded firewood

1 Scope

This document determines the fuel quality classes and specifications of graded firewood. This document covers only firewood produced from the following raw materials (see ISO 17725-1:2021, Table 1):

- 1.1.1 Whole trees without roots;
- 1.1.3 Stem wood;
- 1.1.4 Logging residues (thick branches, tops etc.);
- 1.2.1 Chemically untreated by-products and residues from wood processing industry.

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.

ISO 14780, *Solid biofuels — Sample preparation*

ISO 16559, *Solid biofuels — Terminology, definitions and descriptions*

ISO 17225-1:2021, *Solid biofuels — Fuel specifications and classes — Part 1: General requirements*

ISO 18134-1, *Solid biofuels — Determination of moisture content — Oven dry method — Part 1: Total moisture — Reference method*

ISO 18134-2, *Solid biofuels — Determination of moisture content — Oven dry method — Part 2: Total moisture — Simplified method*

ISO 21945, *Solid biofuels — Simplified sampling method for small scale applications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 16559 and the following apply.

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

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

3.1

firewood

cut and split oven-ready fuelwood used in household wood burning appliances like stoves, fireplaces and central heating systems

Note 1 to entry: Firewood usually has a uniform length, typically in the range of 15 cm to 100 cm.

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