



NSAI
Standards

Irish Standard
I.S. EN ISO 17225-4:2014

Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips (ISO 17225-4:2014)

I.S. EN ISO 17225-4:2014

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Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips (ISO 17225-4:2014)

Biocombustibles solides - Classes et spécifications des combustibles - Partie 4: Classes de plaquettes de bois (ISO 17225-4:2014)

Feste Biobrennstoffe - Brennstoffspezifikationen und -klassen - Teil 4: Einteilung von Holzhackschnitzeln (ISO 17225-4:2013)

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EN ISO 17225-4:2014 (E)

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Foreword

This document (EN ISO 17225-4:2014) 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of an identical text or by endorsement, at the latest by November 2014, and conflicting national standards shall be withdrawn at the latest by November 2014.

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

This document supersedes EN 14961-4:2011.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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Endorsement notice

The text of ISO 17225-4:2014 has been approved by CEN as EN ISO 17225-4:2014 without any modification.

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**INTERNATIONAL
STANDARD**

**ISO
17225-4**

First edition
2014-05-01

**Solid biofuels — Fuel specifications
and classes —**

**Part 4:
Graded wood chips**

*Biocombustibles solides — Classes et spécifications des
combustibles —*

Partie 4: Classes de plaquettes de bois



Reference number
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ISO 17225-4:2014(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 on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 238, *Solid biofuels*.

ISO 17225 consists of the following parts, under the general title *Solid biofuels — Fuel specifications and classes*:

- *Part 1: General requirements*
- *Part 2: Graded wood pellets*
- *Part 3: Graded wood briquettes*
- *Part 4: Graded wood chips*
- *Part 5: Graded firewood*
- *Part 6: Graded non-woody pellets*
- *Part 7: Graded non-woody briquettes*

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 part of ISO 17225 supports the use of graded wood chips for residential, small commercial and public building applications.

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

- Small-scale equipment usually does not 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 Wood chips produced according to this part of ISO 17225 may be used in boilers tested according to EN 303-5^[1].

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

Although these product standards may be obtained separately, they require 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 these standards.

Solid biofuels — Fuel specifications and classes —

Part 4: Graded wood chips

1 Scope

This part of ISO 17225 determines the fuel quality classes and specifications of graded wood chips. This part of ISO 17225 covers only wood chips produced from the following raw materials (see ISO 17225-1, Table 1):

- 1.1 Forest, plantation and other virgin wood
- 1.2 By-products and residues from wood processing industry
- 1.3.1 Chemically untreated used wood

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE ISO standards describing methods for analysis of fuel properties listed in the Bibliography, will become normative references when they are published.

ISO 16559, *Solid biofuels — Terminology, definitions and descriptions*¹⁾

ISO 16948, *Solid biofuels — Determination of total content of carbon, hydrogen and nitrogen*²⁾

ISO 16968, *Solid biofuels — Determination of minor elements*³⁾

ISO 16994, *Solid biofuels — Determination of total content of sulfur and chlorine*⁴⁾

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

ISO 17828, *Solid biofuels — Determination of bulk density*⁵⁾

ISO 18122, *Solid biofuels — Determination of ash content*⁶⁾

ISO 18134-1, *Solid biofuels — Determination of moisture content — Oven dry method — Part 1: Total moisture — Reference method*⁷⁾

1) To be published.

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7) To be published.

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