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Fast biobrændsel – Bestemmelse af vandindhold – Del 1: Referencemetode

Solid biofuels – Determination of moisture content – Part 1: Reference method (ISO 18134-1:2022)

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EUROPÄISCHE NORM

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ICS 75.160.40; 27.190

Supersedes EN ISO 18134-1:2015

English Version

Solid biofuels - Determination of moisture content - Part 1: Reference method (ISO 18134-1:2022)

Biocombustibles solides - Dosage de la teneur en
humidité - Méthode de séchage à l'étuve - Partie
1: Méthode de référence (ISO 18134-1:2022)

Biogene Festbrennstoffe - Bestimmung
des Wassergehaltes - Teil 1:
Referenzverfahren (ISO 18134-1:2022)

This European Standard was approved by CEN on 30 August 2022.

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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.

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European foreword

This document ([EN ISO 18134-1:2022](#)) 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of an identical text or by endorsement, at the latest by March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.

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 18134-1:2015](#).

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 website.

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, Türkiye and the United Kingdom.

Endorsement notice

The text of [ISO 18134-1:2022](#) has been approved by CEN as [EN ISO 18134-1:2022](#) without any modification.

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Second edition
2022-08

Solid biofuels — Determination of moisture content —

Part 1: Reference method

*Biocombustibles solides — Dosage de la teneur en humidité —
Partie 1: Méthode de référence*



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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 335, *Solid biofuels*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition ([ISO 18134-1:2015](http://www.iso.org/iso/18134-1:2015)), which has been technically revised.

The main changes are as follows:

- title revised;
- a warning notice to avoid gain or loss of moisture during sample preparation added in [6.1](#);
- references updated;
- minor editorial corrections;
- more specific sample preparation information provided.

A list of all parts in the [ISO 18134 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.

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Solid biofuels — Determination of moisture content —

Part 1: Reference method

1 Scope

This document describes the method of determining the moisture content of a test sample of solid biofuels by drying in an oven and can be used when high precision of the determination of moisture content is necessary. The method described in this document is applicable to all solid biofuels. The moisture content of solid biofuels (as received) is always reported based on the total mass of the test sample (wet basis).

NOTE Biomass materials can contain small amounts of volatile organic compounds (VOC) which can evaporate when determining moisture content by oven drying (see References [1] and [2]). The release of such compounds is quite small relative to the overall moisture content as determined by this method and is disregarded in this document.

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 — Vocabulary*

[ISO 18135](#), *Solid Biofuels — Sampling*

[ISO 21945](#), *Solid biofuels — Simplified sampling method for small scale applications*