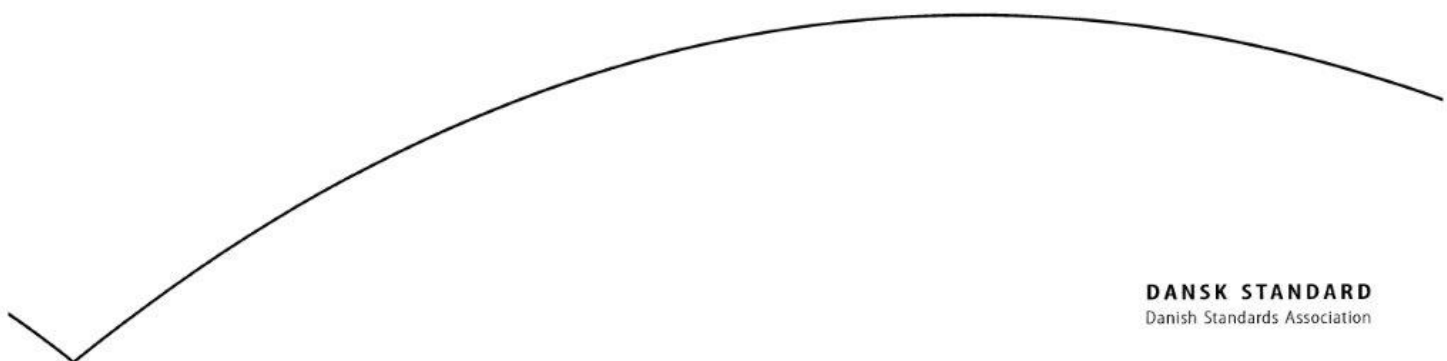


2017-05-16

## **Fast biobrændsel – Bestemmelse af vandindhold – Ovn-tørringsmetode – Del 2: Totalt vandindhold – Forenklet metode**

Solid biofuels – Determination of moisture content – Oven dry method – Part 2: Total moisture – Simplified method (ISO 18134-2:2017)



**DANSK STANDARD**  
Danish Standards Association

Göteborg Plads 1  
DK-2150 Nordhavn

Tel: +45 39 96 61 01

Fax: +45 39 96 61 02

dansk.standard@ds.dk

www.ds.dk

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DS-projekt: MS18311  
ICS: 27.190; 75.160.40

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## EUROPÄISCHE NORM

February 2017

ICS 27.190; 75.160.40

Supersedes EN ISO 18134-2:2015

English Version

## Solid biofuels - Determination of moisture content - Oven dry method - Part 2: Total moisture - Simplified method (ISO 18134-2:2017)

Biocombustibles solides - Dosage de la teneur en humidité - Méthode de séchage à l'étuve - Partie 2: Humidité totale - Méthode simplifiée (ISO 18134-2:2017)

Biogene Festbrennstoffe - Bestimmung des Wassergehaltes - Ofentrocknung - Teil 2: Gesamtgehalt an Wasser - Vereinfachtes Verfahren (ISO 18134-2:2017)

This European Standard was approved by CEN on 1 February 2017.

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.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN ISO 18134-2:2017) 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 August 2017, and conflicting national standards shall be withdrawn at the latest by August 2017.

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 ISO 18134-2:2015.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Endorsement notice

The text of ISO 18134-2:2017 has been approved by CEN as EN ISO 18134-2:2017 without any modification.

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Second edition  
2017-01

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## **Solid biofuels — Determination of moisture content — Oven dry method —**

### **Part 2: Total moisture — Simplified method**

*Biocombustibles solides — Dosage de la teneur en humidité —  
Méthode de séchage à l'étuve —*

*Partie 2: Humidité totale — Méthode simplifiée*



Reference number  
ISO 18134-2:2017(E)

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ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
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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](http://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](http://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 on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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

This second edition cancels and replaces the first edition (ISO 18134-2:2015), of which it constitutes a minor revision with the following changes:

- the source has been deleted in [3.2](#) and in [3.3](#);
- a few subclauses have been rephrased;
- the last sentence of [7.2](#) has been deleted;
- in [Clause 10](#), the last two items have been renumbered e) and f).

A list of all parts in the ISO 18134 series can be found on the ISO website.

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# Solid biofuels — Determination of moisture content — Oven dry method —

## Part 2: Total moisture — Simplified method

### 1 Scope

This document describes the method of determining the total moisture content of a test sample of solid biofuels by drying in an oven and is used when the highest precision is not needed, e.g. for routine production control on site. The method described in ISO 18134 (all parts) 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 The term moisture content, when used with biomass materials, can be misleading since untreated biomass frequently contains varying amounts of volatile compounds (extractives) which might evaporate when determining moisture content by oven drying (see References [1] and [3]).

### 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<sup>1)</sup>, *Solid biofuels — Sample preparation*

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

ISO 18135<sup>2)</sup>, *Solid biofuels — Sampling*

### 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:

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

#### 3.1

##### **nominal top size**

aperture of the sieve where at least 95 % by mass of the material passes

[SOURCE: ISO 16559:2014, 4.137, modified.]

#### 3.2

##### **test sample**

original sample sent to the laboratory for analysis

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1) To be published.

2) To be published.