

Solid biofuels - Determination of moisture content -  
Oven dry method - Part 3: Moisture in general analysis  
sample (ISO 18134-3:2015)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 18134-3:2015 sisaldab Euroopa standardi EN ISO 18134-3:2015 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 18134-3:2015 consists of the English text of the European standard EN ISO 18134-3:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.09.2015.	Date of Availability of the European standard is 30.09.2015.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

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EUROPEAN STANDARD

EN ISO 18134-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

**Solid biofuels - Determination of moisture content - Oven  
dry method - Part 3: Moisture in general analysis sample  
(ISO 18134-3:2015)**

Biocombustibles solides - Méthode de détermination  
de la teneur en humidité - Méthode de séchage à  
l'étuve - Partie 3: Humidité de l'échantillon pour  
analyse générale (ISO 18134-3:2015)

Biogene Festbrennstoffe - Bestimmung des  
Wassergehaltes - Ofentrocknung - Teil 3: Wassergehalt  
in allgemeinen Analysenproben (ISO 18134-3:2015)

This European Standard was approved by CEN on 22 August 2015.

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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**

## European foreword

This document (EN ISO 18134-3:2015) 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 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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 14774-3:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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### Endorsement notice

The text of ISO 18134-3:2015 has been approved by CEN as EN ISO 18134-3:2015 without any modification.

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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)).

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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 18134 consists of the following parts under the general title *Solid biofuels — Determination of moisture content — Oven dry method*:

- *Part 1: Total moisture — Reference method*
- *Part 2: Total moisture — Simplified method*
- *Part 3: Moisture in general analysis sample*

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

## Part 3: Moisture in general analysis sample

### 1 Scope

This part of ISO 18134 describes the method of determining the moisture in the analysis test sample by drying in an oven. It is intended to be used for general analysis samples in accordance with EN 14780. The method described in this part of ISO 18134 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).

Since biofuels in small particle size are very hygroscopic, their moisture content will change with humidity in the atmosphere and therefore, the moisture of the test portion is determined simultaneously with determination of for example calorific value, carbon content, and nitrogen content.

**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 can evaporate when determining the moisture content by oven drying (see References [1] and [2]).

### 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.

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

EN 14778,<sup>1)</sup> *Solid Biofuels — Sampling*

EN 14780,<sup>2)</sup> *Solid Biofuels — Sample preparation*

ISO 11722, *Solid mineral fuels — Hard coal — Determination of moisture in the general analysis test sample by drying in nitrogen*

### 3 Terms and definitions

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

#### 3.1

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

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

[SOURCE: ISO 16559]

1) To be replaced by ISO 18135.

2) To be replaced by ISO 14780.