



SLOVENSKI STANDARD SIST EN ISO 21660-3:2021

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SIST EN 15414-3:2011

**Trdna alternativna goriva - Določevanje vlage z metodo sušenja v sušilni komori -
3. del: Vlaga v preskusnem vzorcu (ISO 21660-3:2021)**

Solid recovered fuels - Determination of moisture content using the oven dry method -
Part 3: Moisture in general analysis sample (ISO 21660-3:2021)

Feste Sekundärbrennstoffe - Bestimmung des Wassergehaltes unter Verwendung des
Verfahrens der Ofentrocknung - Teil 3: Wassergehalt in gewöhnlichen Analysenproben
(ISO 21660-3:2021)

Combustibles solides de récupération - Détermination de l'humidité par la méthode de
séchage à l'étuve - Partie 3: Humidité de l'échantillon pour analyse générale (ISO 21660-
3:2021)

Ta slovenski standard je istoveten z: EN ISO 21660-3:2021

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EUROPEAN STANDARD
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March 2021

ICS 75.160.10

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English Version

**Solid recovered fuels - Determination of moisture content
using the oven dry method - Part 3: Moisture in general
analysis sample (ISO 21660-3:2021)**

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Wassergehaltes unter Verwendung des Verfahrens der
Ofentrocknung - Teil 3: Wassergehalt in gewöhnlichen
Analysenproben (ISO 21660-3:2021)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 21660-3:2021) has been prepared by Technical Committee ISO/TC 300 "Solid recovered materials, including solid recovered fuels" in collaboration with Technical Committee CEN/TC 343 "Solid Recovered Fuels" the secretariat of which is held by SFS.

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of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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.

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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.

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INTERNATIONAL
STANDARD

ISO
21660-3

First edition
2021-03

**Solid recovered fuels — Determination
of moisture content using the oven dry
method —**

Part 3:
Moisture in general analysis sample

iTeh STANDARD PREVIEW
*Combustibles solides de récupération — Détermination de l'humidité
par la méthode de séchage à l'étuve —
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Partie 3: Humidité de l'échantillon pour analyse générale*

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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 300, *Solid recovered fuels*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 343, *Solid recovered fuels*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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.

Solid recovered fuels — Determination of moisture content using the oven dry method —

Part 3: Moisture in general analysis sample

1 Scope

This document specifies a method for the determination of moisture in a general analysis sample by drying the sample in an oven. This method is suitable for use for general analysis samples in accordance with CEN/TS 15414-1^{[3]1)}. It is applicable to all solid recovered fuels.

If solid recovered fuels contain large amounts of oil-fractions the Karl-Fischer-Method (for example ISO 760) is advisable. Otherwise, a lower temperature is recommended (e.g. 50 °C ± 10 °C) and a longer drying time until constant mass is achieved.

NOTE The term moisture content, when used with recovered materials, can be misleading since solid recovered materials, e. g. biomass, frequently contain varying amounts of volatile compounds (extractives) which can evaporate when determining the moisture content of the general analyses sample by oven drying.

2 Normative references (standards.iteh.ai)

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 21637, *Solid recovered fuels — Vocabulary*

ISO 21646²⁾, *Solid recovered fuels — Sample preparation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 21637 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/>

4 Principle

The analysis sample of solid recovered fuels is dried at a temperature of 105 °C under air atmosphere or nitrogen atmosphere. The percentage of moisture is calculated from the loss in mass of the test sample. If the sample material is susceptible to oxidation (at 105 °C), drying in nitrogen atmosphere is performed.

1) The adoption of the standard series EN 15414 as standard series ISO 21660 is planned. ISO 21660-3 is published in parallel at CEN level as EN 21660-3.

2) Under preparation. Stage at the time of publication: ISO/DIS 21646:2021.