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STN	**Tuhé biopalivá. Stanovenie celkového obsahu uhlíka, vodíka a dusíka (ISO 16948: 2015).**	**STN EN ISO 16948** 65 7417

Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen (ISO 16948:2015)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/15

Obsahuje: EN ISO 16948:2015, ISO 16948:2015

Oznámením tejto normy sa ruší
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Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 16948

May 2015

ICS 75.160.10

Supersedes EN 15104:2011

English Version

Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen (ISO 16948:2015)

Biocombustibles solides - Détermination de la teneur totale en carbone, hydrogène et azote (ISO 16948:2015)

Biogene Festbrennstoffe - Bestimmung des Gesamtgehaltes an Kohlenstoff, Wasserstoff und Stickstoff - Instrumentelle Verfahren (ISO 16948:2015)

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Foreword

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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of an identical text or by endorsement, at the latest by November 2015, and conflicting national standards shall be withdrawn at the latest by November 2015.

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The text of ISO 16948:2015 has been approved by CEN as EN ISO 16948:2015 without any modification.

STN EN ISO 16948: 2015

INTERNATIONAL STANDARD

ISO 16948

First edition
2015-05-15

Solid biofuels — Determination of total content of carbon, hydrogen and nitrogen

Biocombustibles solides — Détermination de la teneur totale en carbone, hydrogène et azote

Reference number
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Foreword

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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. www.iso.org/directives

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

For the purposes of research on instrumental methods for the determination of total carbon, hydrogen and nitrogen contents in solid biofuels standards, users are encouraged to share their views on ISO 16948:2015 and their priorities for changes to future editions of the document. Click on the link below to take part in the online survey:

ISO 16948 online survey

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Introduction

Instrumental methods for the analysis of carbon, hydrogen and nitrogen are now in widespread and in regular use, often in preference to formerly developed chemical methods for which International Standards exist.

The reliable determination of carbon, hydrogen and nitrogen is important for quality control and the results can be used as input parameters for calculations applied to the combustion of solid biofuels. The environmental importance of the nitrogen content is linked to emissions of NO_x (formation of fuel NO_x). Hydrogen content is important for calculation of the net calorific value. Carbon content is required for the determination of CO_2-emissions.

It is recognized that the Kjeldahl method is most reliable for determining nitrogen contents with a concentration lower than 0,1 %. Possible suitable methods are summarized in the bibliography.

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INTERNATIONAL STANDARD ISO 16948:2015(E)

Solid biofuels — Determination of total content of carbon, hydrogen and nitrogen

1 Scope

This International Standard describes a method for the determination of total carbon, hydrogen and nitrogen contents in solid biofuels.

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*

ISO 14780[1)], *Solid Biofuels — Sample preparation*

ISO 16993, *Solid biofuels — Conversion of analytical results from one basis to another*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

1) To be prepared.

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