Solid recovered fuels - Method for the determination of carbon (C), hydrogen (H) and nitrogen (N) content

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15407:2011 sisaldab Euroopa standardi EN 15407:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 15407:2011 consists of the English text of the European standard EN 15407:2011.
Standard on kinnitatud Eesti Standardikeskuse 31.03.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 09.03.2011.	Date of Availability of the European standard text 09.03.2011.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 75.160.10

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15407

March 2011

ICS 75.160.10

Supersedes CEN/TS 15407:2006

English Version

Solid recovered fuels - Methods for the determination of carbon (C), hydrogen (H) and nitrogen (N) content

Combustibles solides de récupération - Méthodes pour la détermination de la teneur en carbone (C), en hydrogène (H) et en azote (N)

Feste Sekundärbrennstoffe - Verfahren zur Bestimmung des Gehaltes an Kohlenstoff (C), Wasserstoff (H) und Stickstoff (N)

This European Standard was approved by CEN on 22 January 2011.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 15407:2011: E

Contents

Page

Foreword

This document (EN 15407:2011) has been prepared by 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of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

This document supersedes CEN/TS 15407:2006.

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

This document differs from CEN/TS 15407:2006 only editorially.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

The determination of carbon, hydrogen and nitrogen is usually performed using instrumental methods. The latter can be divided in two groups depending on the amount of test portion used. Micro instrumental methods require few mg of sample; macro methods use grams of sample. If micro methods are used for SRF analysis, a very homogeneous test sample needs to be prepared in order to obtain the required precision.

1 Scope

This European Standard specifies a method for the determination of total carbon, hydrogen and nitrogen contents in solid recovered fuels by instrumental techniques.

This method is applicable for concentrations on dry matter basis of C over 0,1 %, N over 0,01 % and H over 0,1 %.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 15357:2011, *Solid recovered fuels — Terminology, definitions and descriptions*

EN 15413[1)], *Solid recovered fuels — Methods for the preparation of the test sample from the laboratory sample*

EN 15414-3, *Solid recovered fuels — Determination of moisture content using the oven dry method — Part 3: Moisture in general analysis sample*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15357:2011 apply.

4 Safety remarks

The safety in handling of potentially hazardous materials is dealt with relevant national and European regulations, which every laboratory should refer to.

In addition the following information is given:

— only experienced personnel, following the safety instructions of the manufacturer, shall use instruments for carbon, hydrogen and nitrogen determination.

[1)] To be published.