



BSI Standards Publication

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

National foreword

This British Standard is the UK implementation of EN 15407:2011. It supersedes DD CEN/TS 15407:2006 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/17, Solid biofuels.

A list of organizations represented on this committee can be obtained on request to its secretary.

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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.

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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of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.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.

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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 15413¹⁾, *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.