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Standards

Irish Standard
I.S. EN 15297:2011

Solid biofuels - Determination of minor elements - As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn

I.S. EN 15297:2011

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English Version

**Solid biofuels - Determination of minor elements - As, Cd, Co,
Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn**

Biocombustibles solides - Détermination des éléments
mineurs - As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V et
Zn

Feste Biobrennstoffe - Bestimmung von Spurenelementen -
As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V und Zn

This European Standard was approved by CEN on 25 December 2010.

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Contents

Page

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols and abbreviations	6
4.1 Symbols	6
4.2 Abbreviations	6
5 Principle.....	6
6 Reagents	7
6.1 General.....	7
6.2 Water	7
6.3 Hydrofluoric acid (HF)	7
6.4 Hydrogen peroxide (H ₂ O ₂).....	7
6.5 Nitric acid (HNO ₃).....	7
6.6 Boric acid (H ₃ BO ₃).....	7
6.7 Use of Certified Reference Materials (CRM or SRM).....	7
7 Apparatus	7
8 Preparation of the test sample	8
9 Procedure	8
9.1 Digestion.....	8
9.2 Detection methods.....	9
9.3 Calibration of the apparatus	9
9.4 Analysis of the digests.....	9
9.5 Blank test.....	9
10 Calculations.....	10
11 Performance characteristics	10
12 Test report	10
Annex A (informative) Performance data.....	11
Bibliography	15

Foreword

This document (EN 15297:2011) has been prepared by 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of an identical text or by endorsement, at the latest by August 2011, and conflicting national standards shall be withdrawn at the latest by August 2011.

This document supersedes CEN/TS 15297:2006.

In the pre-normative project BIONORM I&II a robustness test has been performed to find out if all critical parameters in the standard were addressed. Based on the results of that test it has been concluded that all critical parameters were covered. Only minor technical changes were necessary which have been implemented in the revised text. The revision also includes a change of deliverable from Technical Specification to European Standard and updated normative references.

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Introduction

The minor elements present in solid biofuels can in some cases be of environmental concern, e.g. it has been shown that certain energy crops will concentrate cadmium and in polluted areas other toxic elements may be found at elevated concentrations in the biofuels. This can be a problem if, for example, the ash from the combustion is to be put back in the forest as a fertilizer. Trace elements in biofuels are often present at very low concentrations requiring great care to avoid contamination in the sample preparation and decomposition steps. The typical concentrations of minor elements in solid biofuels can be found in EN 14961-1 [1]. In this European Standard wet chemical methods are described. Alternative methods such as X-ray fluorescence (XRF) or direct mercury analysers may be used when validated with suitable materials (biomass reference materials).

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