

SVENSK STANDARD

SS-EN 17351:2020

Biobaserade produkter – Bestämning av syrehalten med hjälp av en elementanalysator

Bio-based products – Determination of the oxygen content using an elemental analyser



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Standarder

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Standarden är framtagen av kommittén för Biobaserade produkter, SIS/TK 565.

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Europastandarden EN 17351:2020 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 17351:2020.

The European Standard EN 17351:2020 has the status of a Swedish Standard. This document contains the official version of EN 17351:2020.

EUROPEAN STANDARD

EN 17351

NORME EUROPÉENNE

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English Version

Bio-based products - Determination of the oxygen content using an elemental analyser

Produits biosourcés - Détermination de la teneur en
oxygène à l'aide d'un analyseur élémentaire

Biobasierte Produkte - Bestimmung des
Sauerstoffgehaltes unter Verwendung eines
Elementaranalysators

This European Standard was approved by CEN on 9 October 2019.

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

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SS-EN 17351:2020 (E)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	General requirements for the determination of the oxygen content	6
6	Reagents	7
7	Apparatus	7
8	Sampling	8
9	Measurement procedure	8
10	Calculation of the oxygen content	9
11	Test report	10
Annex A (normative) Performance characteristics		11
Bibliography		13

European foreword

This document (EN 17351:2020) has been prepared by Technical Committee CEN/TC 411 “Bio-based products”, the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.

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.

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

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SS-EN 17351:2020 (E)

Introduction

Bio-based products from forestry and agriculture have a long history of application, such as paper, board and various chemicals and materials. The last decades have seen the emergence of new bio-based products in the market. Some of the reasons for the increased interest lie in the benefits of bio-based products in relation to the depletion of fossil resources and climate change. Bio-based products may also provide additional product functionalities. These developments have triggered a wave of innovation with the development of knowledge and technologies allowing new transformation processes and product development.

Acknowledging the need for common standards for bio-based products, the European Commission issued Mandate M/492¹⁾, resulting in a series of standards developed by CEN/TC 411, with a focus on bio-based products other than food, feed and biomass for energy applications.

The standards of CEN/TC 411 “Bio-based products” provide a common basis on the following aspects:

- common terminology;
- bio-based content determination;
- life Cycle Assessment (LCA);
- sustainability aspects;
- declaration tools.

It is important to understand what the term bio-based product covers and how it is being used. The term ‘bio-based’ means ‘derived from biomass’. Bio-based products (bottles, insulation materials, wood and wood products, paper, solvents, chemical intermediates, composite materials, etc.) are products which are wholly or partly derived from biomass. It is essential to characterize the amount of biomass contained in the product by, for instance, its bio-based content or bio-based carbon content.

The bio-based content of a product does not provide information on its environmental impact or sustainability, which may be assessed through LCA and sustainability criteria. In addition, transparent and unambiguous communication within bio-based value chains is facilitated by a harmonized framework for certification and declaration.

This document has been developed with the aim to specify the method for the determination of oxygen content in bio-based products using an elemental analyser. This document provides the reference test methods for laboratories, producers, suppliers and purchasers of bio-based products. It may be also useful for authorities and inspection organizations.

Part of the research leading to this document has been performed under the European Union Seventh Framework Programme OpenBio (see <https://www.biobasedeconomy.eu/>).

¹⁾ A mandate is a standardization task embedded in European trade laws. Mandate M/492 is addressed to the European Standardization bodies, CEN, CENELEC and ETSI, for the development of horizontal European Standards for bio-based products.