

Thermal insulating materials for building applications - Determination of organic content

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13820:2003 sisaldab Euroopa standardi EN 13820:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.10.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13820:2003 consists of the English text of the European standard EN 13820:2003.</p> <p>This document is endorsed on 14.10.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies the equipment and procedures for determining the organic content of thermal insulating materials</p>	<p>Scope: This European Standard specifies the equipment and procedures for determining the organic content of thermal insulating materials</p>
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ICS 91.100.60

Võtmesõnad: construct, content, definition, definitions, determination, determination of content, insulating materials, materials testing, measuring techniques, organic matters, plastics, test specimens, testing, testing devices, thermal insulating materials, thermal insulation

ICS 91.100.60

English version

Thermal insulating materials for building applications - Determination of organic content

Produits isolants thermiques destinés aux applications du
bâtiment - Détermination du contenu organique

Wärmedämmstoffe für das Bauwesen - Bestimmung des
Gehalts an organischen Bestandteilen

This European Standard was approved by CEN on 7 August 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 13820:2003) has been prepared by Technical Committee CEN/TC 88 "Thermal insulating materials and products", the secretariat of which is held by DIN.

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 March 2004, and conflicting national standards shall be withdrawn at the latest by March 2004.

This European Standard is one of a series of standards which specify test methods for determining dimensions and properties of thermal insulating materials and products. It supports a series of product standards for thermal insulating materials and products which derive from the Council Directive of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (Directive 89/106/EEC) through the consideration of the essential requirements.

This European Standard contains one informative annex:

Annex A Example of a simplified method for the determination of organic content

This European Standard has been prepared for products used to insulate buildings, building equipment and industrial installation, but it may also be applied for products used in other areas.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard gives the reference method. Other methods may be used, e.g. for quality control, provided a correlation has been established with the reference method; annex A gives an example of such a method.

1 Scope

This European Standard specifies the equipment and procedures for determining the organic content of thermal insulating materials.

The method is aimed at determining the organic content for products which are inorganic, i.e. products containing a low percentage of organic compounds, either unfaced products or the insulating material of a faced product.

NOTE 1 It can be used to verify that a thermal insulating product complies with the requirements in prEN 13501-1 Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire test to be in Euroclass A1 without testing.

NOTE 2 The standard is not intended for the determination of organic content in the presence of water of hydration and/or combined carbonate, sulphate etc.

NOTE 3 The standard is not intended for the determination of organic content of adhesives, facings and/or coatings.

2 Normative references

This European Standard contains no normative references.

3 Terms and definitions

For the purposes of this European Standard, the following term and definition applies:

Organic content, M_{oc}

total quantity of carbon compounds contained in a material or product. The organic content in a product shall be expressed as mass percentage

4 Principle

The organic content is determined as the loss of mass of a previously dried test specimen heated at a specific temperature for a specific time period.

5 Apparatus

5.1 Balance,

which allows the determination of the mass of a test specimen to 0,001 g.