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Hygrothermal performance of building materials and products - Determination of moisture content by drying at elevated temperature

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 12570:2000 sisaldab Euroopa standardi EN ISO 12570:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 12.09.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 12570:2000 consists of the English text of the European standard EN ISO 12570:2000.</p> <p>This document is endorsed on 12.09.2000 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 standard, which is applicable to porous water permeable materials, specifies a general method for determining the free water content of building materials by drying at elevated temperature. The standard does not specify the method for sampling.</p>	<p>Scope: This standard, which is applicable to porous water permeable materials, specifies a general method for determining the free water content of building materials by drying at elevated temperature. The standard does not specify the method for sampling.</p>
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ICS 91.100.01

Võtmesõnad:

English version

Hygrothermal performance of building
materials and products

Determination of moisture content by drying at elevated temperature
(ISO 12570 : 2000)

Performance hygrothermique des
matériaux et produits pour le
bâtiment – Détermination du taux
d'humidité par séchage à chaud
(ISO 12570 : 2000)

Wärme- und feuchtetechnisches
Verhalten von Baustoffen und Bau-
produkten – Bestimmung des
Feuchtegehaltes durch Trocknen bei
erhöhter Temperatur
(ISO 12570 : 2000)

This European Standard was approved by CEN on 1999-05-20.

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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 12570 : 2000 Hygrothermal performance of building materials and products – Determination of moisture content by drying at elevated temperature,

which was prepared by ISO/TC 163 'Thermal insulation' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 89 'Thermal performance of buildings and building components', the Secretariat of which is held by SIS, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, by September 2000 at the latest, and conflicting national standards shall be withdrawn by December 2001 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 12570 : 2000 was approved by CEN as a European Standard without any modification.

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Introduction

The moisture content of a material can be used for various purposes, such as

- part of a test method for the moisture related behaviour of the material;
- to characterize the material's state;
- to compare the actual moisture content with a critical or safe moisture content or to assess the moisture distribution.

The test specimens, number, size and preparation can be specified in the relevant product standards for the different types of materials.

1 Scope

This standard, which is applicable to porous water permeable materials, specifies a general method for determining the free water content of building materials by drying at elevated temperature. The standard does not specify the method for sampling.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 9346 Thermal insulation - Mass transfer - Physical quantities and definitions (ISO 9346)

3 Definitions, symbols and units

3.1 Definitions

For the purposes of this standard, the definitions given in EN ISO 9346 and the following apply.

3.1.1 moisture content mass by mass

mass of evaporable water divided by mass of dry material

3.1.2 moisture content volume by volume

volume of evaporable water divided by volume of dry material

3.1.3 moisture content mass by volume

mass of evaporable water divided by volume of dry material

3.1.4 dry density

mass per volume of dry material