Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 1716:2010 sisaldab Euroopa standardi EN ISO 1716:2010 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 1716:2010 consists of the English text of the European standard EN ISO 1716:2010.
Standard on kinnitatud Eesti Standardikeskuse 30.09.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 30.09.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.06.2010.	Date of Availability of the European standard text 15.06.2010.
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Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value) (ISO 1716:2010)

Essais de réaction au feu de produits - Détermination du pouvoir calorifique supérieur (valeur calorifique) (ISO 1716:2010)

Prüfungen zum Brandverhalten von Bauprodukten - Bestimmung der Verbrennungswärme (des Brennwerts) (ISO 1716:2010)

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Foreword

This document (EN ISO 1716:2010) has been prepared by Technical Committee ISO/TC 92 "Fire safety" in collaboration with Technical Committee CEN/TC 127 “Fire safety in buildings” the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by December 2010, and conflicting national standards shall be withdrawn at the latest by December 2010.

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Endorsement notice

The text of ISO 1716:2010 has been approved by CEN as a EN ISO 1716:2010 without any modification.

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Principle **3**

5 Test apparatus **3**
5.1 General **3**
5.2 Calorimetric bomb, constructed with the following characteristics **3**
5.3 Calorimeter **3**

6 Reagents and materials **4**

7 Test specimens **5**
7.1 General **5**
7.2 Sampling **5**
7.3 Determination of surface density **6**
7.4 Grinding **6**
7.5 Type of specimen **6**
7.6 Conditioning **6**
7.7 Number of test specimens **6**
7.8 Determination of mass **6**
7.9 Crucible method **7**
7.10 "Cigarette" method **7**

8 Test procedure **8**
8.1 General **8**
8.2 Calibration procedure **8**
8.3 Standard test procedure **8**

9 Expression of results **9**
9.1 Corrections for manual apparatus **9**
9.2 Corrections for isothermal calorimeter (see Annex C) **10**
9.3 Calculation of the gross heat of combustion of the specimen **10**
9.4 Calculation of the gross heat of combustion of the product **11**

10 Test report **12**

11 Validity of test results **13**

Annex A (normative) **Calculation of net heat of combustion** **18**

Annex B (informative) **Precision of test method** **19**

Annex C (informative) **Calculation by graph of the corrective term, c, necessary because of the cooling of the calorimeter** **22**

Annex D (informative) **Example of determination of the gross heat of combustion of a non-homogeneous product** **23**

Bibliography **26**

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WARNING — The attention of all persons concerned with managing and carrying out this test is drawn to the fact that fire testing may be hazardous and that there is a possibility that toxic and/or harmful gases may be evolved during the test. Operational hazards may also arise during the testing of specimens, such as the possibility of an explosion, and during the disposal of test residues.

WARNING — An assessment of all the potential hazards and risks to health should be made and safety precautions should be identified and provided. Written safety instructions should be issued. Appropriate training should be given to relevant personnel. Laboratory personnel should ensure that they follow written instructions at all times.

1 Scope

This International Standard specifies a method for the determination of the gross heat of combustion (Q_{PCS}) of products at constant volume in a bomb calorimeter.

Annex A describes the calculation of the net heat of combustion (Q_{PCI}) when required.

Information on the precision of the test method is given in Annex B.

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.

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 13943, *Fire safety — Vocabulary*

EN 13238, *Reaction to fire tests for building products — Conditioning procedures and general rules for selection of substrates*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13943, and the following apply.

3.1
product
material, element or component about which information is required

3.2
material
single basic substance or uniformly dispersed mixture of substances

EXAMPLE Metal, stone, timber, concrete, mineral wool with a uniformly dispersed binder and polymers.