Refractory products - Determination of refractoriness under load - Differential method with rising temperature

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 1893:2008 sisaldab Euroopa standardi EN ISO 1893:2008 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 1893:2008 consists of the English text of the European standard EN ISO 1893:2008.
Standard on kinnitatud Eesti Standardikeskuse 21.07.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 21.07.2008 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 04.06.2008.	Date of Availability of the European standard text 04.06.2008.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

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Võtmesõnad:

EUROPEAN STANDARD

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EN ISO 1893

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Supersedes EN 993-8:1997

English Version

Refractory products - Determination of refractoriness under load - Differential method with rising temperature (ISO 1893:2007)

Produits réfractaires - Détermination de l'affaissement sous charge - Méthode différentielle avec élévation de la température (ISO 1893:2007)

Feuerfeste Erzeugnisse - Bestimmung des Erweichungsverhaltens unter Druck (Druckerweichen) - Differentialverfahren mit steigender Temperatur (ISO 1893:2007)

This European Standard was approved by CEN on 29 May 2008.

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 CEN 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 CEN Management Centre has the same status as the official versions.

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

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Ref. No. EN ISO 1893:2008: E

Foreword

The text of ISO 1893:2007 has been prepared by Technical Committee ISO/TC 33 “Refractories” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1893:2008 by Technical Committee CEN/TC 187 “Refractory products and materials” 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 2008, and conflicting national standards shall be withdrawn at the latest by December 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 1893:2007 has been approved by CEN as a EN ISO 1893:2008 without any modification.

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1 Scope

This International Standard specifies a method for determining the deformation of dense and insulating shaped refractory products, when subjected to a constant load under conditions of progressively rising temperature (or refractoriness under load), by a differential method. The test may be carried out up to a maximum temperature of 1 700 °C.

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 3599, *Vernier callipers reading to 0,1 and 0,05 mm*

IEC 60584-1, *Thermocouples — Part 1: References tables*

IEC 60584-2, *Thermocouples — Part 2: Tolerances*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
refractoriness under load
measure of the behaviour of a refractory material subjected to the combined effects of load, rising temperature and time

4 Principle

A cylindrical test piece is subjected to a specified constant compressive load and heated at a specified rate of temperature increase until a prescribed deformation or subsidence occurs. The deformation of the test piece is recorded as the temperature increases, and the temperatures corresponding to specified proportional degrees of deformation are determined.