

Classification of dense shaped refractory products - Part 1: Alumina- silica

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Part 1: Alumina-silica

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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| <p>Käesolev Eesti standard EVS-EN ISO 10081-1:2005 sisaldab Euroopa standardi EN ISO 10081-1:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.04.2005 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 10081-1:2005 consists of the English text of the European standard EN ISO 10081-1:2005.</p> <p>This document is endorsed on 28.04.2005 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:</p> <p>This part of ISO 10081 specifies the classification and designation of dense shaped refractory products of the alumina-silica series, with the following exceptions: a) products containing more than of any metallic oxide other than alumina, silica, iron oxide; b) products containing more than carbon, carbides, nitrides, oxynitrides or any associated materials.</p> | <p>Scope:</p> <p>This part of ISO 10081 specifies the classification and designation of dense shaped refractory products of the alumina-silica series, with the following exceptions: a) products containing more than of any metallic oxide other than alumina, silica, iron oxide; b) products containing more than carbon, carbides, nitrides, oxynitrides or any associated materials.</p> |
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ICS 81.080

Võtmesõnad:

English version

Classification of dense shaped refractory products - Part 1:
Alumina-silica (ISO 10081-1:2003)

Classification des produits réfractaires façonnés denses -
Partie 1: Silice-alumine (ISO 10081-1:2003)

Klassifizierung dichter geformter feuerfester Erzeugnisse -
Teil 1: Alumina-Silika (ISO 10081-1:2003)

This European Standard was approved by CEN on 7 February 2005.

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Foreword

The text of ISO 10081-1:2003 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 10081-1:2005 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 September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

This document supersedes EN 12475-1:1998.

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

Endorsement notice

The text of ISO 10081-1:2003 has been approved by CEN as EN ISO 10081-1:2005 without any modifications.

**Classification of dense shaped refractory
products —**

**Part 1:
Alumina-silica**

Classification des produits réfractaires façonnés denses —

Partie 1: Silice-alumine



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 10081-1 was prepared by Technical Committee ISO/TC 33, *Refractories*.

The various parts of this revised series of ISO 10081 will cancel and replace ISO 1109:1975. Part 1 is a partial revision of ISO 1109:1975, Part 2 cancels and replaces ISO 10081-1:1991, and Part 3 is new.

ISO 10081 consists of the following parts, under the general title *Classification of dense shaped refractory products*:

- *Part 1: Alumina-silica*
- *Part 2: Basic products containing less than 7 % residual carbon*
- *Part 3: Basic products containing from 7 % to 50 % residual carbon*

Part 4 is under preparation and is intended to cover special products as given in Clause 2 of ISO 1109:1975.

Classification of dense shaped refractory products —

Part 1:

Alumina-silica

1 Scope

This part of ISO 10081 specifies the classification and designation of dense shaped refractory products of the alumina-silica series, with the following exceptions:

- a) products containing more than 5 % of any metallic oxide other than alumina, silica, iron oxide;
- b) products containing more than 1 % carbon, carbides, nitrides, oxynitrides or any associated materials.

2 Classification

2.1 Basis of classification

Dense shaped refractory products of the alumina-silica series shall be classified according to the following five criteria:

- a) the type of product;
- b) the group determined by its alumina and/or silica contents;
- c) the principal raw material(s);
- d) the state of the raw material(s);
- e) the nature of the bond (including any post treatment).

2.2 Type of product

The types of dense shaped refractory products of the alumina-silica series included in this classification are:

- a) high alumina (HA),
- b) fireclay (FC),
- c) low alumina fireclay (LF),
- d) siliceous (SS), and
- e) silica (SL).

NOTE The abbreviations used in the above list are from the English names for the refractory products.

These product types shall be classified in accordance with Table 1, by their chemical analysis carried out on the calcined test products.¹⁾

1) A chemical analysis standard is under development.