



SLOVENSKI STANDARD
SIST EN ISO 10081-1:2005

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SIST EN 12475-1:1998

Razvrstitev gostih oblikovanih ognjevzdržnih izdelkov - 1. del: Alumosilikatni izdelki (ISO 10081-1:2003)

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

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

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

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ICS:

81.080 Ognjevzdržni materiali Refractories

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10081-1

March 2005

ICS 81.080

Supersedes EN 12475-1:1998

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.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of 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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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

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ISO
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**Classification of dense shaped refractory
products —**

**Part 1:
Alumina-silica**

Classification des produits réfractaires façonnés denses —

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Partie 1: Silice-alumine
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

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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.