

**SLOVENSKI STANDARD**  
**SIST EN ISO 10081-2:2005****01-julij-2005****BUXca Yý U****SIST EN 12475-2:1998****SIST EN 12475-2:1998**

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Classification of dense shaped refractory products - Part 2: Basic products containing less than 7 % residual carbon (ISO 10081-2:2003)

**iTeh STANDARD PREVIEW**

Klassifizierung dichter geformter feuerfester Erzeugnisse - Teil 2: Basische Erzeugnisse mit einem Massenanteil an Restkohlenstoff kleiner 7 % (ISO 10081-2:2003)

[SIST EN ISO 10081-2:2005](https://standards.itih.si/catalog/standards/sist/aaf18add-18a3-4632-a526-f781132d879/sist-en-iso-10081-2-2005)

Classification des produits réfractaires façonnés denses - Partie 2: Produits basiques contenant moins de 7 % de carbone résiduel (ISO 10081-2:2003)

**Ta slovenski standard je istoveten z: EN ISO 10081-2:2005**

**ICS:**

81.080 Ognjevzdržni materiali Refractories

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 10081-2

March 2005

ICS 81.080

Supersedes EN 12475-2:1998

English version

Classification of dense shaped refractory products - Part 2:  
Basic products containing less than 7 % residual carbon (ISO  
10081-2:2003)

Classification des produits réfractaires façonnés denses -  
Partie 2: Produits basiques contenant moins de 7 % de  
carbone résiduel (ISO 10081-2:2003)

Klassifizierung dichter geformter feuerfester Erzeugnisse -  
Teil 2: Basische Erzeugnisse mit einem Massenanteil an  
Restkohlenstoff kleiner 7 % (ISO 10081-2:2003)

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 10081-2:2005 (E)****Foreword**

The text of ISO 10081-2:2003 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 10081-2:2005 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 12475-2:1998.

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.

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The text of ISO 10081-2:2003 has been approved by CEN as EN ISO 10081-2:2005 without any modifications.

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INTERNATIONAL  
STANDARD

ISO  
10081-2

First edition  
2003-12-01

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**Classification of dense shaped refractory  
products —**

Part 2:

**Basic products containing less than 7 %  
residual carbon**

**iTeh STANDARD PREVIEW**

*Classification des produits réfractaires façonnés denses —  
(Partie 2: Produits basiques contenant moins de 7 % de carbone résiduel)*  
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## ISO 10081-2:2003(E)

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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 10081-2 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 2:

### Basic products containing less than 7 % residual carbon

#### 1 Scope

This part of ISO 10081 specifies the classification and designation of dense shaped basic refractory products with or without antioxidant additives. Products containing 7 % or more residual carbon after coking are excluded from this classification. The classification is applicable to dense shaped products with or without metal plates and reinforcement.

NOTE 1 ISO 10081-3 covers the classification of dense shaped basic products containing from 7 % to 50 % residual carbon.

NOTE 2 All bricks can be encased in metal plate and all unfired bricks can be reinforced by means of an internal metal plate, and/or mixed metal fibre.

#### 2 Normative references

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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 10058, *Magnesites and dolomites — Chemical analysis*

ISO 12677, *Chemical analysis of refractory products by XRF — Fused cast bead method*

#### 3 Classification

##### 3.1 Basis of classification

Dense shaped basic products containing less than 7 % residual carbon shall be classified according to the following criteria:

- the type of product;
- the group determined principally by its magnesia content as well as the presence of antioxidant additives;
- the state of the raw materials;
- the nature of the bond;
- any post-treatment.

##### 3.2 Type of product

The types of dense shaped refractory products of the basic series included in this classification are

- magnesia (M),
- magnesia lime (ML),