

### SLOVENSKI STANDARD SIST EN ISO 10081-4:2014

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Classification of dense shaped refractory products - Part 4: Special products (ISO 10081-4:2014)

Klassifizierung dichter geformter feuerfester Erzeugnisse Teil 4: Sondererzeugnisse (ISO 10081-4:2014) (standards.iteh.ai)

Classification des produits réfractai<u>res façonnés denses</u> - Partie 4: Produits spéciaux (ISO 10081-4:2014)https://standards.iteh.ai/catalog/standards/sist/3f082a28-96b6-4a5b-aaa4-77e33f1fcff2/sist-en-iso-10081-4-2014

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#### **English Version**

### Classification of dense shaped refractory products - Part 4: Special products (ISO 10081-4:2014)

Classification des produits réfractaires façonnés denses -Partie 4: Produits spéciaux (ISO 10081-4:2014) Klassifizierung dichter geformter feuerfester Erzeugnisse -Teil 4: Sondererzeugnisse (ISO 10081-4:2014)

This European Standard was approved by CEN on 30 July 2014.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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EN ISO 10081-4:2014 (E)

#### **Foreword**

This document (EN ISO 10081-4:2014) has been prepared by Technical Committee ISO/TC 33 "Refractories" in collaboration with 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 March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.

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.

This document supersedes EN 12475-4:1998.

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

#### iTeh STANDARD PREVIEW

(stan Endorsement notice)

The text of ISO 10081-4:2014 has been approved by CEN as EN ISO 10081-4:2014 without any modification. SIST EN ISO 10081-4:2014

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# INTERNATIONAL STANDARD

ISO 10081-4

Second edition 2014-09-01

### Classification of dense shaped refractory products —

Part 4: **Special products** 

Classification des produits réfractaires façonnés denses —

iTeh STPartie 4: Produits speciaux VIEW (standards.iteh.ai)

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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#### ISO 10081-4:2014(E)

#### 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 33, Refractories.

This second edition cancels and replaces the first edition (ISO 10081-4:2007), of which it constitutes a minor revision. Changes have been made to Tables 7 and 8 and the bibliography has been updated.

77e33flfcff2/sist-en-iso-10081-4-2014 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: Special products

### Classification of dense shaped refractory products —

#### Part 4:

### **Special products**

#### 1 Scope

This part of ISO 10081 specifies the classification and designation of dense shaped refractory products of special composition including

- a) oxide products,
- b) oxide and non-oxide products,
- c) non-oxide silicon carbide or carbon-based products, and
- d) further special products which are only designated but not classified, for example, non-oxide products, such as boride, nitride or further combinations of the series listed above.

### 2 Principle iTeh STANDARD PREVIEW

Dense shaped special products shall be classified according to the following six criteria:

- a) the type of product;
- SIST EN ISO 10081-4:2014
- b) the group determined by the content of its main chemical component(s);
- c) the principal raw material(s);
- d) the state of the raw materials;
- e) the nature of the bond;
- f) any post-treatment.

#### 3 Classification

#### 3.1 Type of product

The following types of dense shaped refractory special products shall be classified by chemical analysis as shown in 3.2.

- a) alumina-chromia (ACr);
- b) chromia (Cr);
- c) alumina-chromia-zirconia (ACrZ);
- d) alumina-chromia-zirconia-silica (ACrZS);
- e) zirconia-silica (ZS);
- f) alumina-zirconia-silica (AZS);
- g) alumina-carbon (AC);