

**Classification of dense shaped
refractory products - Part 3: Basic
products containing from 7% to 50%
residual carbon**

Classification of dense shaped refractory products -
Part 3: Basic products containing from 7% to 50%
residual carbon

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 10081-3:2005 sisaldab Euroopa standardi EN ISO 10081-3:2005 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 10081-3:2005 consists of the English text of the European standard EN ISO 10081-3:2005.</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 basic refractory products containing 7% or more but less than 50% residual carbon after coking. It is applicable to products with or without antioxidant additives, with or without metal plates and reinforcement.</p>	<p>Scope:</p> <p>This part of ISO 10081 specifies the classification and designation of dense shaped basic refractory products containing 7% or more but less than 50% residual carbon after coking. It is applicable to products with or without antioxidant additives, with or without metal plates and reinforcement.</p>
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ICS 81.080

Võtmesõnad:

English version

Classification of dense shaped refractory products - Part 3:
Basic products containing from 7% to 50% residual carbon (ISO
10081-3:2003)

Classification des produits réfractaires façonnés denses -
Partie 3: Produits basiques contenant de 7 % à 50 % de
carbone résiduel (ISO 10081-3:2003)

Klassifizierung dichter geformter feuerfester Erzeugnisse -
Teil 3: Basische Erzeugnisse mit einem Massenanteil an
Restkohlenstoff von 7 % bis 50 % (ISO 10081-3:2003)

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

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Foreword

The text of ISO 10081-3:2003 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 10081-3:2005 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 12475-3:1998.

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 10081-3:2003 has been approved by CEN as EN ISO 10081-3:2005 without any modifications.

Classification of dense shaped refractory products —

Part 3:
Basic products containing from 7 % to 50 % residual carbon

Classification des produits réfractaires façonnés denses —

Partie 3: Produits basiques contenant de 7 % à 50 % de carbone résiduel



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Published in Switzerland

Foreword

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ISO 10081-3 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 3: Basic products containing from 7 % to 50 % residual carbon

1 Scope

This part of ISO 10081 specifies the classification and designation of dense shaped basic refractory products containing 7 % or more but less than 50 % residual carbon after coking. It is applicable to products with or without antioxidant additives, with or without metal plates and reinforcement.

NOTE 1 ISO 10081-2 covers the classification of dense shaped basic products containing less than 7 % residual carbon.

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

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 10058, *Magnesites and dolomites — Chemical analysis*

ISO 10060, *Dense, shaped refractory products — Test methods for products containing carbon*

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 7 % or more but less than 50 % residual carbon after coking shall be classified according to the following five criteria:

- a) the type of product;
- b) the group determined by its magnesia and carbon content as well as the presence of antioxidant additives;
- c) the state of the raw materials;
- d) the nature of the bond;
- e) any post-treatment.

3.2 Type of product

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

- a) magnesia carbon (MC),
- b) magnesia lime carbon (MLC) (containing lime and/or synthetic MgO-CaO co-clinker),