

Unshaped refractory products —

Part 1: Introduction and definitions

UDC 666.766:620.1

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This Draft for Development, having been prepared under the direction of the Materials and Chemicals Sector Board (I/-), was published under the authority of the Standards Board and comes into effect on 15 February 1995

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The following BSI reference relates to the work on this Draft for Development:
Committee reference RPI/1

ISBN 0 580 23676 5

Amendments issued since publication

Amd. No.	Date	Comments

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National foreword

This Draft for Development has been prepared by Technical Committee RPI/1 and is the English language version of ENV 1402-1:1994 *Unshaped refractory products — Part 1: Introduction and definitions* published as a European Prestandard by the European Committee for Standardization (CEN).

This publication is not to be regarded as a British Standard.

It is being issued in the Draft for Development series of publications and is of a provisional nature because it is considered that further experience is required in its application before it is converted into a British Standard. It should be applied on this provisional basis so that information and experience of its practical application may be obtained for reporting to the CEN committee responsible for converting the prestandard into a European Standard. A review of the prestandard will be carried out 2 years after its publication.

Submission of comments from users of this publication is requested. According to the replies received, the responsible BSI committee will judge whether to support the conversion into a European Standard or what other action should be taken. Comments should be sent in writing to BSI, 389 Chiswick High Road, London W4 4AL for the attention of the Secretary of RPI/1 quoting the document reference (DD ENV 1402-1), the relevant clause and, where possible, a proposed revision, within 2 years of the issue of this document.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ENV title page, pages 2 to 14, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

UDC 666.766:620.1

Descriptors: Refractory materials, unshaped refractories, designation, definition

English version

Unshaped refractory products — Part 1: Introduction and definitions

Produits réfractaires non façonnés —
Partie 1: Introduction et définitions

Ungeformte feuerfeste Produkte —
Teil 1: Einleitung und Definitionen

This European Prestandard (ENV) was approved by CEN on 1993-10-06 as a prospective standard for provisional application. The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard (EN).

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Prestandard has been prepared by CEN/TC187, Refractory products and materials. ENV 1402 *Unshaped refractory products* consists of eight Parts:

- Part 1: Introduction and definitions;
- Part 2: Sampling;
- Part 3: Characterization as received;
- Part 4: Consistency testing;
- Part 5: Preparation and treatment of test pieces;
- Part 6: Measurement of physical properties;
- Part 7: Pre-formed shapes;
- Part 8: Classification¹⁾.

The general objective is to define, with as much accuracy as possible, the control of unshaped refractory products with special reference to:

- a) quality control;
- b) checking the conformity of the delivery as compared with claimed properties;
- c) the control of batch homogeneity.
- d) the final control of linings.

Properties are unavoidably influenced by industrial placing as a result of the equipment, environmental conditions and often by specific site conditions (target date, location). Quality control and final control of lining should not be considered in the same documents, since the former requires accuracy and clean operative methods while the latter requires the control of the placing.

Unshaped refractory products used in industrial linings are not fired, so that the firing effect which results from heating creates complicated conditions that make control difficult. The main points to be mentioned are:

- i) a temperature gradient, the consequence of which is a property gradient;
- ii) the level of maximum temperature reached on the hot face directly depends on the working temperature of the equipment;
- iii) the life of the equipment may be numbered in hours or in years.

It should be noted that properties measured in the laboratory frequently do not reflect the properties of the material when installed. Reproducibility and repeatability data is not yet available.

CEN/TC187 approved this European Prestandard by resolution No. 4 during its sixth meeting held in Paris, 93-10-06.

¹⁾ To be included in future work

In accordance with the CEN/CENELEC regulations, the following countries are bound to announce this European Prestandard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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