



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 1402-2:2003**

ICS

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel: (01) 807 3800  
Tel: (01) 807 3838

## **UNSHAPED REFRACTORY PRODUCTS - PART 2: SAMPLING FOR TESTING**

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on:  
November 28, 2003*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2003

**Price Code F**

Údarás um Chaighdeán Náisiúnta na hÉireann



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 1402-2**

October 2003

ICS

Supersedes ENV 1402-2:1997

English version

## Unshaped refractory products - Part 2: Sampling for testing

Produits réfractaires non-façonnés - Partie 2:  
Echantillonnage

Ungeformte feuerfeste Erzeugnisse - Teil 2: Probenahme

This European Standard was approved by CEN on 20 June 2003.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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

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

## Contents

	page
Foreword .....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	4
4 Sampling scheme .....	5
4.1 General principles .....	5
4.2 Procurement of the batch sample .....	6
4.2.1 Method .....	6
4.2.2 Apparatus to take increments .....	8
4.2.3 Method to take increments .....	8
4.3 Size reduction of the increments .....	8
4.3.1 General .....	8
4.3.2 Reduction of a package increment using a riffle box .....	9
4.3.3 Reduction of a package increment by quartering .....	9
4.3.4 Increment reduction using a mechanical divider .....	9
4.4 Test-piece increment achievement .....	9
5 Marking, package, storage of increments .....	10
5.1 Marking .....	10
5.2 Package .....	10
5.3 Storage .....	10
6 Sampling report .....	10
Annex A (informative) Example .....	12
A.1 General .....	12
A.2 Batch supplied in 25 kg bags .....	12
A.3 Batch supplied in 1 ton big bags .....	12
Bibliography .....	15

## Foreword

This document (EN 1402-2:2003) has been prepared 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 April 2004, and conflicting national standards shall be withdrawn at the latest by April 2004.

This document supersedes ENV 1402-2:1997.

EN 1402 "*Unshaped refractory products*" consists of eight parts:

- *Part 1: Introduction and classification*
- *Part 2: Sampling for testing*
- *Part 3: Characterization as received*
- *Part 4: Determination of consistency of castables*
- *Part 5: Preparation and treatment of test pieces*
- *Part 6: Measurement of physical properties*
- *Part 7: Tests on pre-formed shapes*
- *Part 8: Determination of complementary properties*

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

## EN 1402-2:2003 (E)

### 1 Scope

This part of this European Standard gives guidance on the sampling of unshaped refractory materials for the purpose of inspection and testing for quality and general information on the reduction and treatment of samples prior to testing. It covers all materials formulated as unshaped refractory materials.

### 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 932-1, *Tests for general properties of aggregates - Part 1: Methods for sampling*.

ISO 8656-1, *Refractory products - Sampling of raw materials and unshaped products - Part 1: Sampling scheme*.

### 3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

#### 3.1

##### **batch lot**

quantity of material from which a sample is to be achieved for testing to determine the quality of the material

NOTE A batch consists of material characterised as being of the same type, composition, grading and which, as far as practical, has been manufactured under the same conditions.

#### 3.2

##### **consignment**

quantity of material supplied at one time

NOTE A consignment may consist of one or more batches or parts of batches.

#### 3.3

##### **unit package**

packaged part of a batch which can be a bag or a big bag (castables, gunning material, ramming mixes), a carton (plastics), wrapped block (tap hole mixes), a drum or a can (injection material, refractory grout...)

NOTE A pallet is not a unit package.

#### 3.4

##### **increment**

quantity of material taken at one time from a larger quantity

##### 3.4.1

##### **elementary increment**

quantity of material taken at one time from a unit package

NOTE This operation repeated a number of times will constitute a package increment after mixing.

##### 3.4.2

##### **package increment**

increment that is representative of the unit package

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-