



SLOVENSKI STANDARD
SIST EN 1094-3:2003

01-november-2003

BUXca Yý U
SIST ENV 1094-3:1998

Hcd`c[bc]nc`UW`g_]`c[b`Yj nXf`yb`]nXY_]!` "XY.`F Unj fgh]Hj `hcd`c[bc]nc`UW`g_]`
]nXY_]c j `]n`YfUa] b]` j`U`Yb

Insulating refractory products - Part 3: Classification of insulating products made from ceramic fibres

iTeh STANDARD PREVIEW

(standards.itech.ai)

Feuerfeste Erzeugnisse für Isolationszwecke - Teil 3: Klassifizierung von Erzeugnissen aus Keramischer Faser

SIST EN 1094-3:2003

<https://standards.itech.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-7e41552c1a22/sist-en-1094-3-2003>

Produits réfractaires isolants - Partie 3: Classification des produits isolants a base de fibres céramiques

Ta slovenski standard je istoveten z: EN 1094-3:2003

ICS:

81.080 Ognjevzdržni materiali Refractories

SIST EN 1094-3:2003 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 1094-3:2003](#)

<https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4bf7556520e/sist-en-1094-3-2003>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1094-3

July 2003

ICS 81.080

Supersedes ENV 1094-3:1998

English version

Insulating refractory products - Part 3: Classification of insulating products made from ceramic fibres

Produits réfractaires isolants - Partie 3: Classification des produits isolants à base de fibres céramiques

Feuerfeste Erzeugnisse für Isolationszwecke - Teil 3: Klassifizierung von Erzeugnissen aus Keramischer Faser

This European Standard was approved by CEN on 28 May 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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
<https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4bf7556520e/sist-en-1094-3-2003>



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 Principle	4
4 Classification	5

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 1094-3:2003](https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4bf7556520e/sist-en-1094-3-2003)

<https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4bf7556520e/sist-en-1094-3-2003>

Foreword

This document (EN 1094-3:2003) 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 January 2004, and conflicting national standards shall be withdrawn at the latest by January 2004.

This document supersedes ENV 1094-3:1998.

EN 1094 'Insulating refractory products' consists of seven Parts:

Part 1 : Terminology for ceramic fibre products;

Part 2 : Classification of shaped products;

Part 3 : Classification of ceramic fibre products;

Part 4 : Determination of bulk density and true porosity of shaped products;

Part 5 : Determination of cold crushing strength of shaped products;

Part 6 : Determination of permanent change in dimensions on heating of shaped products;

Part 7 : Methods of test for ceramic fibre products.

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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 1094-3:2003
<https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4bf7556520e/sist-en-1094-3-2003>

EN 1094-3:2003 (E)**1 Scope**

This Part of EN 1094 establishes the classification of insulating refractory products made from ceramic fibres. It applies to blankets, felts, mats, papers, boards and preformed shapes.

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 1094-6 *Insulating refractory products - Part 6: Determination of permanent change in dimensions of shaped products on heating (ISO 2477 :1987 modified)*.

3 Principle

The product is classified into groups, according to the temperature at which the shrinkage obtained by the permanent linear change in dimensions test, as described in EN 1094-6, does not exceed a given value.

According to the nature of the product, the shrinkage value shall not exceed:

- 2 % for boards and preformed shapes [SIST EN 1094-3:2003](https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4b1f7556520e/sist-en-1094-3-2003)
- 4 % for blankets, felts, mats and papers <https://standards.iteh.ai/catalog/standards/sist/7f4a3d9e-97aa-49bb-98cb-a4b1f7556520e/sist-en-1094-3-2003>

4 Classification

The classification begins at 850 °C and includes 19 groups separated by a step of 50 °C.

Groups are designated by the 3 first digits of the temperature at which the PLC test is carried out (see Table 1).

Table 1 - Classification by temperature

Group	Temperature (°C) at which the PLC test is carried out
085	850
090	900
095	950
100	1 000
105	1 050
110	1 100
115	1 150
120	1 200
125	1 250
130	1 300
135	1 350
140	1 400
145	1 450
150	1 500
155	1 550
160	1 600
165	1 650
170	1 700
175	1 750

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1094-3:2003
<https://standards.iteh.ai/catalog/standards/sist/74a3d9e-97aa-49bb-98cb-a4bf7556520e/sist-en-1094-3-2003>