

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1927

REFRACTORY MATERIALS

CLASSIFICATION OF PREPARED UNSHAPED MATERIALS
(DENSE AND INSULATING)

1st EDITION

March 1971

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 1927, *Refractory materials – Classification of prepared unshaped materials (Dense and insulating)*, was drawn up by Technical Committee ISO/TC 33, *Refractories*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1927, which was circulated to all the ISO Member Bodies for enquiry in February 1970. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Hungary	Sweden
Austria	India	Thailand
Canada	Israel	Turkey
Chile	Italy	U.A.R.
Czechoslovakia	Korea, Rep. of	United Kingdom
Denmark	New Zealand	U.S.S.R.
France	Portugal	Yugoslavia
Germany	Romania	
Greece	South Africa, Rep. of	

No Member Body opposed the approval of the Draft.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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CLASSIFICATION OF PREPARED UNSHAPED MATERIALS

(DENSE AND INSULATING)

1. SCOPE

- 1.1 This ISO Recommendation gives the definition, classification and designation of prepared unshaped refractory materials.

It does not apply to materials that are of the nature of refractory materials but that have only been crushed or granulated.

- 1.2 The designation of prepared unshaped refractory materials is based on

- classification in terms of the nature of the constituents;
- terminology according to type of use and method of placing.

2. DEFINITIONS

- 2.1 *Refractory materials.* Materials and products other than metals and alloys (although not excluding materials containing a metallic constituent), the refractoriness of which is at least 1500 °C.

- 2.2 *Prepared unshaped refractory materials.* Mixtures (see Note below) containing one or more refractory constituents and a bond, prepared ready for use, either directly in the condition in which they are supplied or after the addition of a suitable liquid. The refractoriness of the refractory constituent (or constituents) of the mixture should be at least 1500 °C.

NOTE. — These mixtures may be either dense or insulating; the true porosity of insulating batches, determined on a test piece prepared under the conditions of industrial use and fired at the temperature of use, should be at least 45 %.