
**Shaped insulating refractory products —
Classification**

Produits réfractaires isolants façonnés — Classification



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Published in Switzerland

Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 2245 was prepared by Technical Committee ISO/TC 33, *Refractories*.

This third edition cancels and replaces the second edition (ISO 2245:1990), Clauses 3 and 5 and Tables 1 and 2 of which have been technically revised.

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Shaped insulating refractory products — Classification

1 Scope

This International Standard specifies a classification of shaped insulating refractory products, based on the determination of permanent change in dimension on heating, with a secondary classification based on bulk density to cover lightweight products (Class L). Products composed of ceramic fibres are excluded.

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 836: 2001, *Terminology for refractories*

ISO 5016, *Shaped insulating refractory products — Determination of bulk density and true porosity*

ISO 2477, *Shaped insulating refractory products — Determination of permanent change in dimensions on heating*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 836 and the following apply.

3.1

shaped insulating refractory product

shaped insulating refractory

shaped refractory having a true porosity of not less than 45 % by volume

NOTE 1 Adapted from ISO 836:2001.

NOTE 2 The true porosity is determined in accordance with ISO 5016.

NOTE 3 These products are characterized by low thermal conductivity and low heat capacity.

4 Classification

Shaped insulating refractory products are subdivided into groups according to:

- a) the temperature at which the permanent change in dimensions, determined in accordance with ISO 2477, is 2 % or less (see Table 1);
- b) the bulk density, rounded to two decimal places, determined in accordance with ISO 5016, to distinguish Class L products from those with the same grouping according to a), but with a higher porosity. Products with average bulk densities equal to or below that given in Table 2 shall be designated as Class L.