
**Dense, shaped refractory products —
Determination of cold compressive
strength —**

**Part 2:
Test with packing**

*Produits réfractaires façonnés denses — Détermination de la résistance
à la compression à température ambiante —
Partie 2: Essai avec intercalaires*

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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 10059-2 was prepared by Technical Committee ISO/TC 33, *Refractories*.

ISO 10059 consists of the following parts, under the general title *Dense, shaped refractory products — Determination of cold compressive strength*:

- *Part 1: Referee test without packing*
- *Part 2: Test with packing*

Dense, shaped refractory products — Determination of cold compressive strength —

Part 2: Test with packing

1 Scope

This part of ISO 10059 specifies a method for the determination of the cold compressive strength of dense shaped refractory products as an alternative to that described in ISO 10059-1.

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 3599, *Vernier callipers reading to 0,1 and 0,05 mm*

ISO 5017, *Dense shaped refractory products — Determination of bulk density, apparent porosity and true porosity*

3 Terms and definitions

For the purposes of this document the following terms and definitions apply.

3.1

cold compressive strength

maximum load (applied under specified conditions at room temperature) divided by the area over which the load is applied, that a refractory will withstand before failure occurs

3.2

dense, shaped refractory product

refractory with specific dimensions, having a true porosity of less than 45 % when measured in accordance with ISO 5017

4 Principle

A test piece of known dimensions is subjected, under specified conditions, to an increasing compressive load until it fails, i.e., when it cannot support a further increase in load. Each load-bearing face of the test piece is separated from the platens of the loading device by a single sheet of packing material. The cold compressive strength is calculated from the maximum load indicated at failure and the mean cross-sectional area over which the load is applied.