SLOVENSKI STANDARD
SIST EN ISO 16282:2008

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Nadomeġļ a:
SIST EN 993-20:2004

Metode za preskuġanje gostih oblikovanih ognjevzdrġnih izdelkov - Doloļ anje odpornosti proti povrġinski obrabi pri zunanji temperaturi (ISO 16282:2007)

Methods of test for dense shaped refractory products - Determination of resistance to abrasion at ambient temperature (ISO 16282:2007)

Prüfverfahren für dichte geformte feuerfeste Erzeugnisse - Bestimmung der Beständigkeit gegen Abrieb bei Umgebungstemperatur (ISO 16282:2007)

Méthodes d'essai des produits réfractaires façonnés denses - Détermination de la résistance à l'abrasion à température ambiante (ISO 16282:2007)

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81.080	Ognjevzdržni materiali	Refractories

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English Version

Methods of test for dense shaped refractory products - Determination of resistance to abrasion at ambient temperature (ISO 16282:2007)

Méthodes d'essai des produits réfractaires façonnés denses - Détermination de la résistance à l'abrasion à température ambiante (ISO 16282:2007)

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Foreword

The text of ISO 16282:2007 has been prepared by Technical Committee ISO/TC 33 “Refractories” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 16282:2008 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of an identical text or by endorsement, at the latest by November 2008, and conflicting national standards shall be withdrawn at the latest by November 2008.

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Endorsement notice

The text of ISO 16282:2007 has been approved by CEN as a EN ISO 16282:2008 without any modification.

INTERNATIONAL STANDARD

ISO 16282

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Methods of test for dense shaped refractory products — Determination of resistance to abrasion at ambient temperature

Méthodes d'essai des produits réfractaires façonnés denses — Détermination de la résistance à l'abrasion à température ambiante

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

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ISO 16282 was prepared by Technical Committee ISO/TC 33, *Refractories*.

Methods of test for dense shaped refractory products — Determination of resistance to abrasion at ambient temperature

1 Scope

This International Standard specifies a method intended primarily for the determination of the abrasion resistance of shaped refractory materials at ambient temperature. It can also be used for unshaped refractory materials. It provides an indication of the suitability of the material for service in abrasive or erosive conditions.

NOTE This International Standard is based on and technically identical to EN 993-20, published by the European Committee for Standardization.

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 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

ISO 5017, *Dense shaped refractory products — Determination of bulk density, apparent porosity and true porosity*[1)]

3 Terms and definitions

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

3.1
resistance to abrasion
resistance of refractory test pieces to the surface wear caused by the mechanical action of moving solids

3.2
resistance to erosion
resistance of refractory test pieces to the surface wear caused by the mechanical action of a fluid, which may or may not contain solid material

4 Principle

The method determines the volume of material abraded from a flat surface of a test piece placed at right angles to a nozzle through which 1 000 g of size-graded silicon carbide is blasted by compressed air at 450 kPa.

1) EN 993-1, which is referred to in the text of EN 993-20, is closely based on ISO 5017.