

SLOVENSKI STANDARD SIST EN ISO 18753:2006 01-julij-2006

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Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of absolute density of ceramic powders by pyknometer (ISO 18753:2004)

Hochleistungskeramik - Bestimmung der absoluten Dichte keramischer Pulver mit einem Pyknometer (ISO 18753:2004)

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Céramiques techniques - Détermination de la masse volumique absolue des poudres céramiques a l'aide d'un pycnometre (ISO 18753:2004)

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ICS: 81.060.30

SIST EN ISO 18753:2006

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 18753

October 2005

ICS 81.060.30

Supersedes EN 725-7:1995

English Version

Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of absolute density of ceramic powders by pyknometer (ISO 18753:2004)

Céramiques techniques - Détermination de la masse volumique absolue des poudres céramiques à l'aide d'un pycnomètre (ISO 18753:2004) Hochleistungskeramik - Bestimmung der absoluten Dichte keramischer Pulver mit einem Pyknometer (ISO 18753:2004)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN ISO 18753:2005: E

Foreword

The text of ISO 18753:2004 has been prepared by Technical Committee ISO/TC 206 "Fine ceramics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 18753:2005 by Technical Committee CEN/TC 184 "Advanced technical ceramics" 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of an identical text or by endorsement, at the latest by April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

This document supersedes EN 725-7:1995.

CEN/TC 184 has prepared EN 725 Advanced technical ceramics — Methods of test for ceramic powders in twelve parts as follows:

Part 1: Determination of impurities in alumina

Part 2: Determination of impurities in barium titanate

Part 3: Determination of oxygen content of non-oxides by thermal extraction

Part 4: Determination of oxygen content of non-oxides by XRF analysis / IF W

Part 5: Determination of particle size distribution ards.iten.ai)

Part 6: Determination of specific surface area ΓEN ISO 18753:2006

Part 7: Determination of absolute density 44c30de5e529/sist-en-iso-18753-2006

Part 8: Determination of tapped density

Part 9: Determination of untamped bulk density

Part 10: Determination of compaction properties

Part 11: Determination of the densification on natural sintering

Part 12: Chemical analysis of zirconia

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Endorsement notice

The text of ISO 18753:2004 has been approved by CEN as EN ISO 18753:2005 without any modifications.

INTERNATIONAL STANDARD

First edition 2004-08-15

Fine ceramics (advanced ceramics, advanced technical ceramics) — Determination of absolute density of ceramic powders by pyknometer

Céramiques techniques — Détermination de la masse volumique absolue des poudres céramiques à l'aide d'un pycnomètre **iTeh STANDARD PREVIEW**

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Foreword

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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.

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 18753 was prepared by Technical Committee ISO/TC 206, Fine ceramics.

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Fine ceramics (advanced ceramics, advanced technical ceramics) — Determination of absolute density of ceramic powders by pyknometer

1 Scope

This International Standard specifies a method for determining the particle density of fine ceramic powders using liquid pyknometry.

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 758, Liquid chemical products for industrial use - Determination of density at 20 °C

ISO 3507, Laboratory glassware – Pyknometers ds.iteh.ai)

ISO 6353-2, Reagents for chemical analysis ENPart 23 Specifications — First series https://standards.iteh.ai/catalog/standards/sist/22db00c6-2f17-427b-afc3-ISO 6353-3, Reagents for chemical analysis 529 Part 31 Specifications — Second series

ISO 8213, Chemical products for industrial use — Sampling techniques — Solid chemical products in the form of particles varying from powders to coarse lumps

3 Terms and definitions

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

3.1

particle density

density of an individual particle of powder

NOTE When an enclosed space occurs inside the particle, the space is considered to be part of the individual particle.

3.2

pyknometry

method of measuring particle density using a pyknometer

4 Preparation of measurement

4.1 Sampling

A representative sample for analysis shall be taken in accordance with ISO 8213.