

Advanced technical ceramics — Methods of test for ceramic powders —

Part 4: Determination of oxygen content in aluminium nitride by XRF analysis

The European Standard EN 725-4:2006 has the status of a
British Standard

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National foreword

This British Standard was published by BSI. It is the UK implementation of EN 725-4:2006. It supersedes DD ENV 725-4:1994 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee RPI/13, Advanced technical ceramics.

A list of organizations represented on RPI/13 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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English Version

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Céramiques techniques avancées - Méthodes d'essai pour
poudres céramiques - Partie 4: Détermination de la teneur
en oxygène du nitrure d'aluminium par spectrométrie de
fluorescence XRF

Hochleistungskeramik - Prüfverfahren für keramische
Pulver - Teil 4: Bestimmung der Sauerstoffgehaltes in
Aluminiumnitrid-Pulvern mittels Röntgenfluoreszenzanalyse
(RFA)

This European Standard was approved by CEN on 13 March 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This European Standard (EN 725-4:2006) has been prepared 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of an identical text or by endorsement, at the latest by October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

This European Standard supersedes ENV 725-4:1994.

The main changes in the new edition are:

- revision of the foreword to reflect changes in the EN 725 series;
- changes to the normative references;
- modification of the test piece preparation requirements;
- modification of the test report requirements;
- addition of a bibliographical reference.

EN 725 *Advanced technical ceramics — Methods of test for ceramic powders* was prepared in 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 with a carrier gas*
- Part 4: *Determination of oxygen content in aluminium nitride by XRF analysis*
- Part 5: *Determination of particle size distribution*
- Part 6: *Determination of specific surface area* [withdrawn]
- Part 7: *Determination of absolute density* [withdrawn]
- Part 8: *Determination of tapped bulk density*
- Part 9: *Determination of un-tapped bulk density*
- Part 10: *Determination of compaction properties*
- Part 11: *Determination of densification on natural sintering*
- Part 12: *Chemical analysis of zirconia*

Parts 6 and 7 of the series were superseded in 2005 by EN ISO 18757 and EN ISO 18753 respectively.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic,