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ICS 81.060.30

**ADVANCED TECHNICAL CERAMICS -
MECHANICAL PROPERTIES OF MONOLITHIC
CERAMICS AT ROOM TEMPERATURE - PART
2: DETERMINATION OF YOUNG'S MODULUS,
SHEAR MODULUS AND POISSON'S RATIO**

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English Version

**Advanced technical ceramics - Mechanical properties of
monolithic ceramics at room temperature - Part 2: Determination
of Young's modulus, shear modulus and Poisson's ratio**

Céramiques techniques avancées - Propriétés mécaniques
des céramiques monolithiques à température ambiante -
Partie 2: Détermination du module d'Young, du module de
cisaillement et du coefficient de Poisson

Hochleistungskeramik - Mechanische Eigenschaften
monolithischer Keramik bei Raumtemperatur - Teil 2:
Bestimmung des Elastizitätsmoduls, Schubmoduls und der
Poissonzahl

This European Standard was approved by CEN on 11 November 2006.

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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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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EN 843-2:2006 (E)

Foreword

This document (EN 843-2:2006) 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of an identical text or by endorsement, at the latest by June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

This document supersedes ENV 843-2:1995.

EN 843 *Advanced technical ceramics — Mechanical properties of monolithic ceramics at room temperature* comprises six parts:

Part 1: *Determination of flexural strength*

Part 2: *Determination of Young's modulus, shear modulus and Poisson's ratio*

Part 3: *Determination of subcritical crack growth parameters from constant stressing rate flexural strength tests*

Part 4: *Vickers, Knoop and Rockwell superficial hardness*

Part 5: *Statistical analysis*

Part 6: *Guidance for fractographic investigation*

At the time of publication of this Revision of Part 2, Part 6 was available as a Technical Specification.

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