

I.S. EN ISO 18756:2005

ICS 81.060.30

FINE CERAMICS (ADVANCED CERAMICS,

ADVANCED TECHNICAL CERAMICS) 
DETERMINATION OF FRACTURE

TOUGHNESS OF MONOLITHIC CERAMICS AT

ROOM TEMPERATURE BY THE SURFACE

CRACK IN FLEXURE (SCF) METHOD (ISO

18756:2003)

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

**EN ISO 18756** 

July 2005

ICS 81.060.30

## **English Version**

Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of fracture toughness of monolithic ceramics at room temperature by the surface crack in flexure (SCF) method (ISO 18756:2003)

Céramiques techniques - Détermination de la ténacité à la rupture des céramiques monolithiques à température ambiante par fissuration superficielle en flexion (ISO 18756:2003)

Hochleistungskeramik - Bestimmung der Bruchzähigkeit monolithischer Keramik bei Raumtemperatur für Biegeproben mit Oberflächenriss (Knoop-Riss) (SCF-Verfahren) (ISO 18756:2003)

This European Standard was approved by CEN on 2 June 2005.

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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#### EN ISO 18756:2005 (E)

#### **Foreword**

The text of ISO 18756:2003 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 18756:2005 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of an identical text or by endorsement, at the latest by January 2006, and conflicting national standards shall be withdrawn at the latest by January 2006.

This document is part of a series:

CEN/TS 14425-1 Advanced technical ceramics — Test methods for determination of fracture toughness of monolithic ceramics — Part 1: Guide to test method selection

CEN/TS 14425-3 Advanced technical ceramics — Test methods for determination of fracture toughness of monolithic ceramics — Part 3: Chevron notched beam (CNB) method

CEN/TS 14425-5 Advanced technical ceramics — Test methods for determination of fracture toughness of monolithic ceramics — Part 5: Single-edge V-notch beam (SEVNB) method

EN ISO 15732 Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for fracture toughness of monolithic ceramics at room temperature by single edge precracked beam (SEPB) method

EN ISO 18756 Fine ceramics (advanced ceramics, advanced technical ceramics) — Determination of fracture toughness of monolithic ceramics at room temperature by the surface crack in flexure (SCF) method

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#### **Endorsement notice**

The text of ISO 18756:2003 has been approved by CEN as EN ISO 18756:2005 without any modifications.

# INTERNATIONAL STANDARD

ISO 18756

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Fine ceramics (advanced ceramics, advanced technical ceramics) — Determination of fracture toughness of monolithic ceramics at room temperature by the surface crack in flexure (SCF) method

Céramiques techniques — Détermination de la ténacité à la rupture des céramiques monolithiques à température ambiante par fissuration superficielle en flexion



### ISO 18756:2003(E)

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