



NSAI
Standards

Irish Standard
I.S. EN 843-8:2010

Advanced technical ceramics - Mechanical properties of monolithic ceramics at room temperature - Part 8: Guidelines for conducting proof tests

I.S. EN 843-8:2010

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i>	<i>This document is based on:</i> EN 843-8:2010	<i>Published:</i> 23 June, 2010
This document was published under the authority of the NSAI and comes into effect on: 29 June, 2010		ICS number: 81.060.30
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
Údarás um Chaighdeáin Náisiúnta na hÉireann		

ICS 81.060.30

English Version

**Advanced technical ceramics - Mechanical properties of
monolithic ceramics at room temperature - Part 8: Guidelines for
conducting proof tests**

Céramiques techniques avancées - Propriétés mécaniques
des céramiques monolithiques à température ambiante -
Partie 8: Lignes directrices de conduite d'épreuves

Hochleistungskeramik - Mechanische Eigenschaften
monolithischer Keramik bei Raumtemperatur - Teil 8:
Leitlinien zur Durchführung von Überlast-Prüfungen

This European Standard was approved by CEN on 13 May 2010.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, 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.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	5
5	Main considerations	5
6	Design of proof-test equipment	6
7	Test operation	7
8	Report	7
Annex A (informative) Basis of proof-testing		9
A.1	Short-term strength	9
A.2	Long-term effects	9
A.3	Defining the need to proof-test	10
Bibliography		11

Foreword

This document (EN 843-8:2010) 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 December 2010, and conflicting national standards shall be withdrawn at the latest by December 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

EN 843, *Advanced technical ceramics — Mechanical properties of monolithic ceramics at room temperature*, consists of the following nine 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*
- *Part 7: C-ring tests*
- *Part 8: Guidelines for conducting proof tests*
- *FprCEN/TS 843-9, Advanced technical ceramics — Mechanical properties of monolithic ceramics at room temperature — Part 9: Method of test for edge-chip resistance*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, 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 the United Kingdom.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-