

Advanced technical ceramics — Mechanical properties of ceramic composites at room temperature —

Part 3: Determination of flexural strength

The European Standard EN 658-3:2002 has the status of a
British Standard

ICS 81.060.30

National foreword

This British Standard is the official English language version of EN 658-3:2002. It supersedes DD ENV 658-3:1993 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee RPI/13, Advanced technical ceramics, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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This British Standard, having been prepared under the direction of the Materials and Chemicals Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 19 September 2002

Summary of pages

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English version

**Advanced technical ceramics - Mechanical properties of ceramic
composites at room temperature - Part 3: Determination of
flexural strength**

Céramiques techniques avancées - Propriétés mécaniques
des céramiques composites à température ambiante -
Détermination de la résistance en flexion

Hochleistungskeramik - Mechanische Eigenschaften von
keramischen Verbundwerkstoffen bei Raumtemperatur -
Teil 3: Bestimmung der Biegefestigkeit

This European Standard was approved by CEN on 6 July 2002.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Contents

	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Principle	4
4 Terms, definitions and symbols	4
5 Apparatus	5
5.1 Test machine	5
5.2 Test jig	5
5.3 Data recording system	5
5.4 Dimension measuring devices	5
6 Test specimens	5
7 Test specimen preparation	6
7.1 Machining and preparation	6
7.2 Number of test specimens	6
8 Test procedures	7
8.1 Displacement rate	7
8.2 Measurement of dimensions	7
8.3 Testing technique	7
8.4 Test validity	8
9 Calculation of results	8
9.1 Test specimen origin	8
9.2 Flexural strength	8
10 Test report	9
Bibliography	11

Foreword

This document (EN 658-3:2002) 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 February 2003, and conflicting national standards shall be withdrawn at the latest by February 2003.

This document supersedes ENV 658-3:1992.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 658 has six parts:

- $\frac{3}{4}$ *Part 1: Determination of tensile properties.*
- $\frac{3}{4}$ *Part 2: Determination of compressive properties.*
- $\frac{3}{4}$ *Part 3: Determination of flexural strength.*
- $\frac{3}{4}$ *Part 4: Determination of interlaminar shear strength by compression loading of notched test specimens.*
- $\frac{3}{4}$ *Part 5: Determination of interlaminar shear strength by short span bend test (three-points).*
- $\frac{3}{4}$ *Part 6: Determination of interlaminar shear strength by double-punch shearing.*