STN	Jemná keramika (špeciálna keramika, špeciálna technická keramika). Skúšobná metóda tlakového správania sa kompozitov vystužených vláknami pri izbovej teplote (ISO 20504: 2006).	STN EN ISO 20504
		72 7519

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for compressive behaviour of continuous fibre-reinforced composites at room temperature (ISO 20504:2006)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/16

Obsahuje: EN ISO 20504:2016, ISO 20504:2006

Oznámením tejto normy sa ruší STN EN 658-2 (72 7519) zo septembra 2003

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016 Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for compressive behaviour of continuous fibre-reinforced composites at room temperature (ISO 20504:2006)

Céramiques techniques - Méthode d'essai de résistance à la compression des composites renforcés de fibres continues à température ambiante (ISO 20504:2006) Hochleistungskeramik - Bestimmung der Eigenschaften unter Druck von endlosfaserverstärkten Verbundwerkstoffen bei Raumtemperatur (ISO 20504:2006)

This European Standard was approved by CEN on 25 March 2016.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

The text of ISO 20504:2006 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 20504:2016 by Technical Committee CEN/TC 184 "Advanced technical ceramics" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by October 2016, and conflicting national standards shall be withdrawn at the latest by October 2016.

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Endorsement notice

The text of ISO 20504:2006 has been approved by CEN as EN ISO 20504:2016 without any modification.

INTERNATIONAL STANDARD

ISO 20504

First edition 2006-01-15

Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for compressive behaviour of continuous fibre-reinforced composites at room temperature

Céramiques techniques — Méthode d'essai de résistance à la compression des composites renforcés de fibres continues à température ambiante



Reference number ISO 20504:2006(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 20504 was prepared by Technical Committee ISO/TC 206, Fine ceramics.

Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for compressive behaviour of continuous fibre-reinforced composites at room temperature

1 Scope

This International Standard describes procedures for determination of the compressive behaviour of ceramic matrix composite materials with continuous fibre reinforcement at room temperature. This method applies to all ceramic matrix composites with a continuous fibre reinforcement, uni-directional (1D), bi-directional (2D) and tri-directional (xD, with 2 < $x \le 3$), tested along one principal axis of reinforcement. This method may also be applied to carbon-fibre-reinforced carbon matrix composites (also known as: carbon/carbon or C/C). Two cases of testing are distinguished: compression between platens and compression using grips.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7500-1, Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system

ISO 3611, Micrometer callipers for external measurements

ISO 9513, Metallic materials — Calibration of extensometers used in uniaxial testing

ISO 14126, Fibre-reinforced plastic composites — Determination of compressive properties in the in-plane direction

ASTM E1012, Standard Practice for Verification of Test Frame and Specimen Alignment Under Tensile and Compressive Axial Force Application

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

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