



SLOVENSKI STANDARD
SIST EN ISO 14544:2025

01-marec-2025

Fina keramika (sodobna keramika, sodobna tehnična keramika) - Mehanske lastnosti keramičnih kompozitov pri visoki temperaturi - Ugotavljanje lastnosti pri stiskanju (ISO 14544:2025)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at high temperature - Determination of compressive properties (ISO 14544:2025)

Hochleistungskeramik - Mechanische Eigenschaften von keramischen Verbundwerkstoffen bei hoher Temperatur - Bestimmung der Eigenschaften unter Druck (ISO 14544:2025)

Céramiques techniques - Propriétés mécaniques des composites à matrice céramique à haute température - Détermination des caractéristiques en compression (ISO 14544:2025)

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Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at high temperature - Determination of compressive properties (ISO 14544:2025)

Céramiques techniques - Propriétés mécaniques des composites à matrice céramique à haute température - Détermination des caractéristiques en compression (ISO 14544:2025)

Hochleistungskeramik-Mechanische Eigenschaften von keramischen Verbundwerkstoffen bei hoher Temperatur-Bestimmung der Eigenschaften unter Druck (ISO 14544:2025)

This European Standard was approved by CEN on 18 January 2025.

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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 14544:2025) has been prepared by Technical Committee ISO/TC 206 "Fine ceramics" in collaboration with 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of an identical text or by endorsement, at the latest by July 2025, and conflicting national standards shall be withdrawn at the latest by July 2025.

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International Standard

ISO 14544

Fine ceramics (advanced ceramics, advanced technical ceramics) — Mechanical properties of ceramic composites at high temperature — Determination of compressive properties

*Céramiques techniques — Propriétés mécaniques des composites
à matrice céramique à haute température — Détermination des
caractéristiques en compression*

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**Second edition
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Foreword

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This document was prepared by Technical Committee ISO/TC 206, *Fine ceramics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 184, *Advanced technical ceramics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 14544:2013), which has been technically revised.

The main changes are as follows:

- alignment of the terms and definition with the vocabulary standard ISO 20507;
- addition of illustration of compressive modulus in [Annex A](#);
- addition of a calibration method of the test temperature by using a cartographic specimen equipped with thermocouples in [Annex B](#).

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