

SLOVENSKI STANDARD
oSIST prEN ISO 17138:2025
01-april-2025

Fina keramika (sodobna keramika, sodobna tehnična keramika) - Mehanske lastnosti keramičnih kompozitov pri sobni temperaturi - Ugotavljanje upogibne trdnosti (ISO/DIS 17138:2025)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at room temperature - Determination of flexural strength (ISO/DIS 17138:2025)

Hochleistungskeramik - Mechanische Eigenschaften von keramischen Verbundwerkstoffen bei Raumtemperatur - Bestimmung der Biegefestigkeit (ISO/DIS 17138:2025)

Céramiques techniques - Propriétés mécaniques des composites céramiques à température ambiante - Détermination de la résistance en flexion (ISO/DIS 17138:2025)

<https://standards.iteh.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025>

Ta slovenski standard je istoveten z: prEN ISO 17138

ICS:

81.060.30 Sodobna keramika Advanced ceramics

oSIST prEN ISO 17138:2025 **en,fr,de**



DRAFT International Standard

ISO/DIS 17138

Fine ceramics (advanced ceramics, advanced technical ceramics) — Mechanical properties of ceramic composites at room temperature — Determination of flexural strength

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

ICS: 81.060.30

[oSIST prEN ISO 17138:2025](https://standards.iteh.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025)

<https://standards.iteh.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025>

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

Reference number
ISO/DIS 17138:2025(en)

ISO/TC 206

Secretariat: JISC

Voting begins on:
2025-02-10

Voting terminates on:
2025-05-05

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

© ISO 2025

ISO/DIS 17138:2025(en)

iTeh Standards (<https://standards.itih.ai>) Document Preview

[oSIST prEN ISO 17138:2025](https://standards.itih.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025)

<https://standards.itih.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO/DIS 17138:2025(en)

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Significance and use	1
4 Terms, definitions, and symbols	2
5 Principle	2
6 Apparatus	2
6.1 Test machine.....	2
6.2 Test fixture.....	2
6.3 Data recording system.....	3
6.4 Dimension measuring devices.....	3
7 Test specimens	3
8 Test specimen preparation	4
8.1 Machining and preparation.....	4
8.2 Number of test specimens.....	4
9 Test procedures	4
9.1 Displacement rate.....	4
9.2 Measurement of dimensions.....	4
9.2.1 Test specimen dimensions.....	4
9.2.2 Distances between supporting rollers.....	4
9.3 Testing technique.....	4
9.3.1 Test specimen mounting.....	4
9.3.2 Measurements.....	5
9.4 Test validity.....	5
9.5 Calculation of results.....	5
9.5.1 General.....	5
9.5.2 Three-point bend.....	5
9.5.3 Four-point bend.....	6
10 Test report	6
Bibliography	8

ISO/DIS 17138:2025(en)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 206, *Fine ceramics*.

(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN ISO 17138:2025](https://standards.iteh.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025)

<https://standards.iteh.ai/catalog/standards/sist/17de41b6-5ef8-4760-b769-37b464974ede/osist-pren-iso-17138-2025>