

<b>STN</b>	<b>Jemná keramika (špeciálna keramika, špeciálna technická keramika). Stanovenie hrúbky keramických filmov pomocou kontaktného profilometra (ISO 18452: 2005).</b>	<b>STN EN ISO 18452</b>  <b>72 7516</b>
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Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of thickness of ceramic films by contact-probe profilometer (ISO 18452:2005)

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 18452:2016, ISO 18452:2005

Oznámením tejto normy sa ruší  
STN EN 1071-1 (72 7516) z októbra 2003

**123310**

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.

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 18452**

April 2016

ICS 81.060.30

Supersedes EN 1071-1:2003

English Version

**Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of thickness of ceramic films by contact-probe profilometer (ISO 18452:2005)**

Céramiques techniques - Détermination de l'épaisseur  
des films céramiques avec un profilomètre à contact  
(ISO 18452:2005)

Hochleistungskeramik - Bestimmung der Dicke  
keramischer Schichten mit einem Kontaktprofilometer  
(ISO 18452:2005)

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

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## European foreword

The text of ISO 18452:2005 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 18452:2016 by Technical Committee CEN/TC 184 “Advanced technical ceramics” the secretariat of which is held by DIN.

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### Endorsement notice

The text of ISO 18452:2005 has been approved by CEN as EN ISO 18452:2016 without any modification.

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**Fine ceramics (advanced ceramics,  
advanced technical ceramics) —  
Determination of thickness of ceramic  
films by contact-probe profilometer**

*Céramiques techniques — Détermination de l'épaisseur des films  
céramiques avec un profilomètre à contact*



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Published in Switzerland

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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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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 18452 was prepared by Technical Committee ISO/TC 206, *Fine ceramics*.



# Fine ceramics (advanced ceramics, advanced technical ceramics) — Determination of thickness of ceramic films by contact-probe profilometer

## 1 Scope

This International Standard specifies a method for the determination of the film thickness of a fine ceramic film and ceramic coatings by a contact-probe profilometer. The method is suitable for film thicknesses in the range of 10 nm to 10 000 nm.

NOTE The method requires a distinct and clearly formed boundary between coated and uncoated parts of the substrate.

## 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 3274, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Nominal characteristics of contact (stylus) instruments*

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