



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 1071-1:2003

Advanced technical ceramics - Methods of test for ceramic coatings - Part 1: Determination of coating thickness by contact probe filometer

Céramiques techniques avancées -
Méthodes d'essai pour revêtements
céramiques - Partie 1: Détermination de
l'épaisseur du revêtement par

Hochleistungskeramik - Verfahren zur
Prüfung keramischer Schichten - Teil 1:
Bestimmung der Schichtdicke mit einem
Kontaktprofilometer

03/2003



National Foreword

This European Standard EN 1071-1:2003 was adopted as Luxembourgish Standard ILNAS-EN 1071-1:2003.

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EUROPEAN STANDARD ^{ILNAS-EN 1071-1:2003} **EN 1071-1**
NORME EUROPÉENNE
EUROPÄISCHE NORM

March 2003

ICS 81.060.30

Supersedes ENV 1071-1:1993

English version

**Advanced technical ceramics - Methods of test for ceramic
coatings - Part 1: Determination of coating thickness by contact
probe filometer**

Céramiques techniques avancées - Méthodes d'essai pour
revêtements céramiques - Partie 1: Détermination de
l'épaisseur du revêtement par profilomètre à contact

Hochleistungskeramik - Verfahren zur Prüfung keramischer
Schichten - Teil 1: Bestimmung der Schichtdicke mit einem
Kontaktprofilometer

This European Standard was approved by CEN on 28 November 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 1071-1:2003) 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 September 2003, and conflicting national standards shall be withdrawn at the latest by September 2003.

This document supersedes ENV 1071-1:1993.

EN 1071 'Advanced technical ceramics – Methods of test for ceramic coatings' consists of 10 parts:

Part 1: Determination of coating thickness by contact probe profilometer

Part 2: Determination of coating thickness by the crater grinding method

Part 3: Determination of adhesion and other mechanical failure modes by a scratch test

Part 4: Determination of chemical composition

Part 5: Determination of porosity

Part 6: Determination of the abrasion resistance of coatings by a micro-abrasion wear test

Part 7: Determination of hardness and Young's modulus by instrumented indentation testing

Part 8: Rockwell indentation test for evaluation of adhesion

Part 9: Determination of fracture strain

Part 10: Determination of coating thickness by cross sectioning

Annex A is informative.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.