

SVENSK STANDARD

SS-EN ISO 4518:2021

Oorganiska ytbeläggningar – Skiktjockleksmätning –
Profilometrisk metod (ISO 4518:2021)

Metallic coatings – Measurement of coating thickness –
Profilometric method (ISO 4518:2021)



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Institutet för
Standarder

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Standarden är framtagen av kommittén för Oorganiska ytbeläggningar, SIS/TK 116.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

Europastandarden EN ISO 4518:2021 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 4518:2021.

Denna standard ersätter SS-EN ISO 4518, utgåva 1

The European Standard EN ISO 4518:2021 has the status of a Swedish Standard. This document contains the official version of EN ISO 4518:2021.

This standard supersedes the SS-EN ISO 4518, edition 1

LÄSANVISNINGAR FÖR STANDARDER

I dessa anvisningar behandlas huvudprinciperna för hur regler och yttre begränsningar anges i standardiseringsprodukter.

Krav

Ett krav är ett uttryck i ett dokumentets innehåll som anger objektivet verifierbara kriterier som ska uppfyllas och från vilka ingen avvikelse tillåts om efterlevnad av dokumentet ska kunna åberopas. Krav uttrycks med hjälpverbet ska (eller ska inte för förbud).

Rekommendation

En rekommendation är ett uttryck i ett dokumentets innehåll som anger en valmöjlighet eller ett tillvägagångssätt som bedöms vara särskilt lämpligt utan att nödvändigtvis nämna eller utesluta andra. Rekommendationer uttrycks med hjälpverbet bör (eller bör inte för avrådanden).

Instruktion

Instruktioner anges i imperativ form och används för att ange hur något görs eller utförs. De kan underordnas en annan regel, såsom ett krav eller en rekommendation. De kan även användas självständigt, och är då att betrakta som krav.

Förklaring

En förklaring är ett uttryck i ett dokumentets innehåll som förmedlar information. En förklaring kan uttrycka tillåtelse, möjlighet eller förmåga. Tillåtelse uttrycks med hjälpverbet får (eller motsatsen behöver inte). Möjlighet och förmåga uttrycks med hjälpverbet kan (eller motsatsen kan inte).

READING INSTRUCTIONS FOR STANDARDS

These instructions cover the main principles for the use of provisions and external constraints in standardization deliverables.

Requirement

A requirement is an expression, in the content of a document, that conveys objectively verifiable criteria to be fulfilled, and from which no deviation is permitted if conformance with the document is to be claimed. Requirements are expressed by the auxiliary shall (or shall not for prohibition).

Recommendation

A recommendation is an expression, in the content of a document, that conveys a suggested possible choice or course of action deemed to be particularly suitable, without necessarily mentioning or excluding others. Recommendations are expressed by the auxiliary should (or should not for dissuasion).

Instruction

An instruction is expressed in the imperative mood and is used in order to convey an action to be performed. It can be subordinated to another provision, such as a requirement or a recommendation. It can also be used independently and is then to be regarded as a requirement.

Statement

A statement is an expression, in the content of a document, that conveys information. A statement can express permission, possibility or capability. Permission is expressed by the auxiliary may (its opposite being need not). Possibility and capability are expressed by the auxiliary can (its opposite being cannot).

EUROPEAN STANDARD

EN ISO 4518

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2021

ICS 25.220.40

Supersedes EN ISO 4518:1995

English Version

Metallic coatings - Measurement of coating thickness - Profilometric method (ISO 4518:2021)

Revêtements métalliques - Mesurage
de l'épaisseur de revêtement - Méthode
profilométrique (ISO 4518:2021)

Metallische Überzüge - Messen der Schichtdicke
- Profilometrisches Verfahren (ISO 4518:2021)

This European Standard was approved by CEN on 25 March 2021.

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

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

Contents

Page

Foreword	vii
European foreword	viii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Instrumentation — Operational parameters and measurement characteristics	1
5.1 Types of profile recording instruments	1
5.2 Stylus instruments	2
5.3 Inductive measuring probes or displacement sensors.....	2
5.4 Optical profilometers.....	3
6 Factors relating to accuracy	4
6.1 Profile record.....	4
6.2 Vertical magnification (only for instruments with chart recorders).....	4
6.3 Graphical measurements.....	4
6.4 Applied force (only for profilometers with stylus)	4
6.5 Stylus diameter and surface roughness	4
6.6 Surface roughness	4
6.7 Vibrations.....	5
6.8 Surface curvature.....	5
6.9 Cleanliness.....	5
6.10 Temperature	5
6.11 Step configuration	5
6.12 Datum reference (only for profilometers with stylus)	5
6.13 Calibration	5
7 Calibration	5
8 Measuring procedure	6
8.1 Preparation of step.....	6
8.2 Recording of profiles	7
8.3 Measurement of thickness.....	7
8.4 Measurement accuracy	7
9 Test report	7
Bibliography	8

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).

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This document was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 262, *Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 4518:1980), which has been technically revised. The main changes compared with the previous edition are as follows:

- optical profilometers such as confocal microscopes or interference microscopes have been added as alternatives to stylus instruments for the measurement of the step height;
- a description of more modern stylus profilometers has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

European foreword

This document (EN ISO 4518:2021) has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" in collaboration with Technical Committee CEN/TC 262 "Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys" 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 October 2021, and conflicting national standards shall be withdrawn at the latest by October 2021.

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Endorsement notice

The text of ISO 4518:2021 has been approved by CEN as EN ISO 4518:2021 without any modification.