

SLOVENSKI STANDARD SIST EN ISO 1518-1:2023

01-maj-2023

Nadomešča:

SIST EN ISO 1518-1:2019

Barve in laki - Ugotavljanje odpornosti proti razenju - 1. del: Metoda s konstantno obremenitvijo (ISO 1518-1:2023)

Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method (ISO 1518-1:2023)

Beschichtungsstoffe - Bestimmung der Kratzbeständigkeit - Teil 1: Verfahren mit konstanter Last (ISO 1518-1:2023)

Peintures et vernis - Détermination de la résistance à la rayure - Partie 1: Méthode à charge constante (ISO 1518-1:2023)

Ta slovenski standard je istoveten z: EN ISO 1518-1:2023

ICS:

87.040 Barve in laki Paints and varnishes

SIST EN ISO 1518-1:2023 en,fr,de

SIST EN ISO 1518-1:2023

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1518-1:2023

https://standards.iteh.ai/catalog/standards/sist/6c940a80-6edc-46ad-90b1f595339632d7/sist-en-iso-1518-1-2023 EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN ISO 1518-1**

February 2023

ICS 87.040

Supersedes EN ISO 1518-1:2019

English Version

Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method (ISO 1518-1:2023)

Peintures et vernis - Détermination de la résistance à la rayure - Partie 1: Méthode à charge constante (ISO 1518-1:2023)

Beschichtungsstoffe - Bestimmung der Kratzbeständigkeit - Teil 1: Verfahren mit konstanter Last (ISO 1518-1:2023)

This European Standard was approved by CEN on 29 January 2023.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

f595339632d7/sist-en-iso-1518-1-2023



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 1518-1:2023 (E)

Contents	Page
European foreword	3

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1518-1:2023
https://standards.iteh.ai/catalog/standards/sist/6c940a80-6edc-46ad-90b1

European foreword

This document (EN ISO 1518-1:2023) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes" 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 August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 1518-1:2019.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 1518-1:2023 has been approved by CEN as EN ISO 1518-1:2023 without any modification.

SIST EN ISO 1518-1:2023

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1518-1:2023

https://standards.iteh.ai/catalog/standards/sist/6c940a80-6edc-46ad-90b1f595339632d7/sist-en-iso-1518-1-2023 **SIST EN ISO 1518-1:2023**

INTERNATIONAL STANDARD

ISO 1518-1

Third edition 2023-02

Paints and varnishes — Determination of scratch resistance —

Part 1: **Constant-loading method**

Peintures et vernis — Détermination de la résistance à la rayure —
Partie 1: Méthode à charge constante

(standards.iteh.ai)

SIST EN ISO 1518-1:2023
https://standards.iteh.ai/catalog/standards/sist/6c940a80-6edc-46ad-90b1



ISO 1518-1:2023(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1518-1:2023
https://standards.iteh.ai/catalog/standards/sist/6c940a80-6edc-46ad-90b1-



COPYRIGHT PROTECTED DOCUMENT

© ISO 2023

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

ii

ISO 1518-1:2023(E)

Con	tents	Page
Forew	vord	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus	2
6	Sampling	
7	Test panels 7.1 Substrate 7.2 Preparation and coating 7.3 Drying and conditioning 7.4 Thickness of coating	4 4 4
8	Procedure 8.1 Test conditions 8.2 General test procedure 8.3 Procedure for a single specified load ("pass/fail" test) 8.4 Procedure for determination of the minimum load to cause penetration 8.5 Evaluation of the scribe	5 5 5
9	Precision	6
10	Test report (standards.iteh.ai)	6
Annex	x A (informative) Comparison of the designation of the scratch styli in the different editions of ISO 1518-1	8
Biblio	ography:s://standards.iteh.ai/catalog/standards/sist/6c940a80-6edc-46ad-90b1-	9

ISO 1518-1:2023(E)

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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 1518-1:2019), which has been technically revised.

The main changes are as follows:

- a total new designation of styli has been created, taking into account the type of the stylus already
 existing in the designation in previous editions;
- ISO 13076 has been added in 8.5 for lighting conditions for the visual evaluation of the scribe;
- Annex A has been added, giving a comparison of the designation of the scratch styli in the different editions of ISO 1518-1;
- the text has been editorially revised and the normative references have been updated.

A list of all parts in the ISO 1518 series can be found on the ISO website.

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.