



SLOVENSKI STANDARD
SIST EN ISO 1518:2001
01-februar-2001

Barve in laki - Preskus z razenjem (ISO 1518:1992)

Paints and varnishes - Scratch test (ISO 1518:1992)

Beschichtungsstoffe - Ritzprüfung (ISO 1518:1992)

Peintures et vernis - Essai de rayure (ISO 1518:1992)

Ta slovenski standard je istoveten z: EN ISO 1518:2000

[SIST EN ISO 1518:2001](https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001)

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>

ICS:

87.040 Barve in laki Paints and varnishes

SIST EN ISO 1518:2001 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 1518:2001

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 1518

March 2000

ICS 87.040

English version

Paints and varnishes - Scratch test (ISO 1518:1992)

Peintures et vernis - Essai de rayure (ISO 1518:1992)

Beschichtungsstoffe - Ritzprüfung (ISO 1518:1992)

This European Standard was approved by CEN on 18 February 2000.

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 Central Secretariat 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 Central Secretariat 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

(standards.iteh.ai)

SIST EN ISO 1518:2001

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>



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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2
EN ISO 1518:2000

Foreword

The text of the International Standard from Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) has been taken over as an European Standard by 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 September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

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

Endorsement notice

The text of the International Standard ISO 1518:1992 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 1518:2001](https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001)

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>

Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 2808	1997	Paints and varnishes - Determination of film thickness	EN ISO 2808	1999
ISO 1512	1991	Paints and varnishes - Sampling of products in liquid or paste form	EN 21512	1994
ISO 3270	1984	Paints and varnishes and their raw materials - Temperatures and humidities for conditioning and testing	EN 23270	1991
ISO 1513	1992	Paints and varnishes - Examination and preparation of samples for testing	EN ISO 1513	1994
ISO 1514	1993	Paints and varnishes - Standard panels for testing	EN ISO 1514	1997

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 1518:2001

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>

INTERNATIONAL STANDARD

ISO
1518

Second edition
1992-04-01

Paints and varnishes — Scratch test

Peintures et vernis — Essai de rayure

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 1518:2001](https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001)

<https://standards.iteh.ai/catalog/standards/sist/1d38e488-843b-4230-9792-4c074256b99e/sist-en-iso-1518-2001>



Reference number
ISO 1518:1992(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.

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.

International Standard ISO 1518 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Sub-Committee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 1518:1973), clauses 3 and 6 and the annex of which have been technically revised.

Annex A forms an integral part of this International Standard. Annex B is for information only.

© ISO 1992

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Paints and varnishes — Scratch test

1 Scope

1.1 This International Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

It specifies a test method for determining under defined conditions the resistance of a single coating or a multi-coat system of paint, varnish or related product to penetration by scratching with a hemispherically tipped needle. Penetration of the needle is to the substrate, except in the case of a multi-coat system, where the penetration of the needle may be either to the substrate or to an intermediate coat.

1.2 The method is intended for application as follows:

- a) either as a pass/fail test, by testing with a single specified load applied to the needle to assess compliance with a particular specification;
- b) or by applying increasing loads to the needle to determine the minimum load at which the coating is penetrated.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1512:1991, *Paints and varnishes — Sampling of products in liquid or paste form.*

ISO 1513:—¹⁾, *Paints and varnishes — Examination and preparation of samples for testing.*

ISO 1514:—²⁾, *Paints and varnishes — Standard panels for testing.*

ISO 2808:1991, *Paints and varnishes — Determination of film thickness.*

ISO 3270:1984, *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing.*

3 Required supplementary information

For any particular application, the test method specified in this International Standard needs to be completed by supplementary information. The items of supplementary information are given in annex A.

4 Apparatus

4.1 Scratch apparatus, the principle of which is illustrated in figure 1; other arrangements which give a similar performance can be used, however. This apparatus consists essentially of a horizontally sliding test panel holder (A) driven by a constant-speed motor (B) at a rate of 30 mm/s to 40 mm/s beneath the point of a scratching needle (C), which is perpendicular to the test panel. The needle is fixed in a chuck, directly above which is a holder capable of carrying weights up to a mass of 2 kg. The maximum load for which the apparatus is designed shall be marked on the test apparatus.

1) To be published. (Revision of ISO 1513:1980)

2) To be published. (Revision of ISO 1514:1984)