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NSAI Standards

Irish Standard
I.S. EN ISO 1518-1:2011

# Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method (ISO 1518-1:2011)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN ISO 1518-1

June 2011

ICS 87.040

Supersedes EN ISO 1518:2000

English Version

## Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method (ISO 1518-1:2011)

Peintures et vernis - Détermination de la résistance à la rayure - Partie 1: Méthode à charge constante (ISO 1518-1:2011)

Beschichtungsstoffe - Ritzprüfung (ISO 1518-1:2011)

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# Foreword

This document (EN ISO 1518-1:2011) 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of an identical text or by endorsement, at the latest by December 2011, and conflicting national standards shall be withdrawn at the latest by December 2011.

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

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# INTERNATIONAL STANDARD

# ISO 1518-1

First edition
2011-06-01

## 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*

Reference number
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

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.

ISO 1518-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

It cancels and replaces ISO 1518:1992, which has been technically revised. The main changes are:

a) the number of the standard has been changed from ISO 1518 to ISO 1518-1;

b) a principle clause has been added;

c) two versions of the test apparatus are now described;

d) the minimum length of the scratch has been reduced from 60 mm to 40 mm;

e) the magnification of the lens used to examine the scratch has been specified as at least ×4;

f) the supplementary test conditions (formerly Annex A) have been integrated in the test report;

g) a clause on precision has been added;

h) Annex B specifying a procedure for re-tipping scratch-test needles has been deleted.

ISO 1518 consists of the following parts, under the general title *Paints and varnishes — Determination of scratch resistance:*

— *Part 1: Constant-loading method*

— *Part 2: Variable-loading method*



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