



**SLOVENSKI STANDARD  
SIST EN ISO 1519:2002**

**01-september-2002**

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SIST EN ISO 1519:1997**

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Paints and varnishes - Bend test (cylindrical mandrel) (ISO 1519:2002)

Beschichtungsstoffe - Dornbiegeversuch (zylindrischer Dorn) (ISO 1519:2002)

Peintures et vernis - Essai de pliage sur mandrin cylindrique (ISO 1519:2002)

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**Ta slovenski standard je istoveten z: EN ISO 1519:2002**

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**ICS:**

87.040            Barve in laki    Paints and varnishes

**SIST EN ISO 1519:2002**    **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 1519**

March 2002

ICS 87.040

Supersedes EN ISO 1519:1995

English version

**Paints and varnishes - Bend test (cylindrical mandrel) (ISO  
1519:2002)**

Peintures et vernis - Essai de pliage sur mandrin  
cylindrique (ISO 1519:2002)

Beschichtungstoffe - Dornbiegeversuch (zylindrischer  
Dorn) (ISO 1519:2002)

This European Standard was approved by CEN on 4 March 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.

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

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

## EN ISO 1519:2002 (E)

<b>CORRECTED 2002-04-24</b>
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**Foreword**

This document (ISO 1519:2002) 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 September 2002, and conflicting national standards shall be withdrawn at the latest by September 2002.

This document supersedes EN ISO 1519:1995.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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The text of the International Standard ISO 1519:2002 has been approved by CEN as a European Standard without any modifications.

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

## 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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
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
ISO 2808	1997	Paints and varnishes - Determination of film thickness	EN ISO 2808	1999
ISO 3270	1984	Paints and varnishes and their raw materials - Temperatures and humidities for conditioning and testing	EN 23270	1991
ISO 15528	2000	Paints, varnishes and raw materials for paints and varnishes – Sampling	EN ISO 15528	2000

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# INTERNATIONAL STANDARD

**ISO  
1519**

Second edition  
2002-03-15

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## **Paints and varnishes — Bend test (cylindrical mandrel)**

*Peintures et vernis — Essai de pliage sur mandrin cylindrique*

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Reference number  
ISO 1519:2002(E)

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**ISO 1519:2002(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 1519 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 1519:1973), which has been technically revised.

Annex A forms a normative part of this International Standard.

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## Introduction

This International Standard is one of five standards which specify empirical test procedures for assessing the resistance of coatings of paints, varnishes and related products to cracking and/or detachment from the substrate under different conditions of deformation.

The other four documents are:

- ISO 1520, *Paints and varnishes — Cupping test*
- ISO 6272-1, *Paints and varnishes — Rapid-deformation tests — Part 1: Falling-weight test, large area*
- ISO 6272-2, *Paints and varnishes — Rapid-deformation tests — Part 2: Falling-weight test, small area*
- ISO 6860, *Paints and varnishes — Bend test (conical mandrel)*

The method chosen will depend on the property to be measured and on agreement between the interested parties. In principle, all these tests differ from each other technically and in their accuracy.

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