

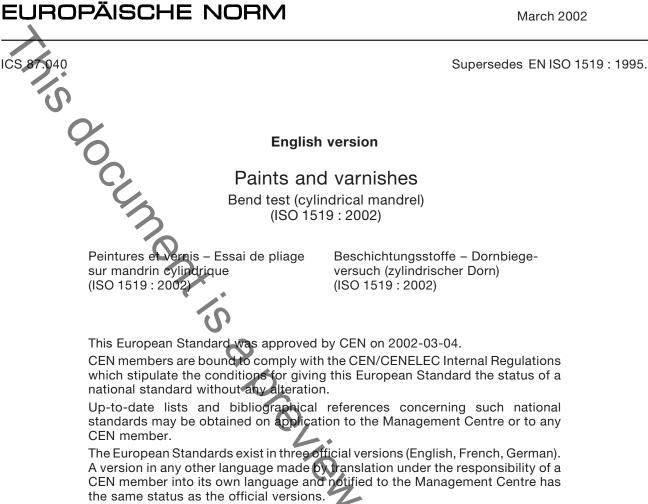


EESTI STANDARDI EESSÕNA NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 1519:2002 sisaldab Euroopa standardi EN ISO 1519:2002 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 1519:2002 consists of the English text of the European standard EN ISO 1519:2002.	
Käesolev dokument on jõustatud 06.08.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 06.08.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.	
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.	
Käsitlusala: This standard specifies an empirical test procedure for assessing the resistance of a coating of paint, varnish or related product to cracking and/or detachment from a metal substrate when subjected to bending round a cylindrical mandrel under standard conditions.	Scope: This standard specifies an empirical test procedure for assessing the resistance of a coating of paint, varnish or related product to cracking and/or detachment from a metal substrate when subjected to bending round a cylindrical mandrel under standard conditions.	
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ICS 87.040		
Võtmesõnad: area, coatings, cylindrical shape, drying, drying stages, evaluations, mandrel bending test, materials testing, methods, painting, paints, piercers, sampling, sampling methods, surfaces, testing, tests, varnishes		
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EN ISO 1519

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EUROPEAN STANDARD

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European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

;EN

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Foreword

International Standard

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

which was prepared by ISO/TC 35 'Paints and varnishes' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 139 'Paints and varnishes', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by September 2002 at the latest. In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the follow-

ing countries are bound to implement this European Standard: Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 1519 : 2002 was approved by CEN as a European Standard without any modification.

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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.

1 Scope

This International Standard specifies an empirical test procedure for assessing the resistance of a coating of paint, varnish or related product to cracking and/or detachment from a metal or plastic substrate when subjected to bending round a cylindrical mandrel under standard conditions.

For a multicoat system, each coat may be tested separately or the complete system may be tested.

The method specified may be carried out

- either a "go/no go" test, by carrying out the test with a single specified size of mandrel, to assess compliance with a particular requirement;
- or by repeating the procedure using successively smaller mandrels to determine the diameter of the first mandrel over which the coating cracks and/or becomes detached from the substrate.

Two types of apparatus are specified, type 1 being appropriate for use on test panels of thickness up to 0,3 mm, and type 2 for use on test panels of thickness up to 1,0 mm. Both types of apparatus have been found to give similar results with the same coating, but normally only one will be used for testing a given product.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1513:1992, Paints and varnishes - Examination and preparation of samples for testing

ISO 1514:—¹⁾, Paints and varnishes — Standard panels for testing

ISO 2808:1997, Paints and varnishes - Determination of film thickness

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

ISO 15528:2000, Paints, varnishes and raw materials for paints and varnishes - Sampling

3 **Required supplementary information**

For any particular application, the test method specified in ISO 1519 needs to be completed by supplementary information.

The items of supplementary information are given in annex A.

¹⁾ To be published. (Revision of ISO 1514:1993)