

SLOVENSKI STANDARD

SIST EN ISO 2815:2003

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Paints and varnishes - Buchholz indentation test (ISO 2815:2003)

Beschichtungsstoffe - Eindruckversuch nach Buchholz (ISO 2815:2003)

iTeh STANDARD PREVIEW
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Peintures et vernis - Essais d'indentation Buchholz (ISO 2815:2003)

Ta slovenski standard je istoveten z: EN ISO 2815:2003

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ICS:

87.040

Barve in laki

Paints and varnishes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 2815

April 2003

ICS 87.040

Supersedes EN ISO 2815:1998

English version

**Paints and varnishes - Buchholz indentation test (ISO
2815:2003)**

Peintures et vernis - Essais d'indentation Buchholz (ISO
2815:2003)

Beschichtungsstoffe - Eindruckversuch nach Buchholz
(ISO 2815:2003)

This European Standard was approved by CEN on 25 March 2003.

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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

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EN ISO 2815:2003 (E)

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Foreword

This document (EN ISO 2815:2003) 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 October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

This document supersedes EN ISO 2815:1998.

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

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Endorsement notice

The text of ISO 2815:2003 has been approved by CEN as EN ISO 2815:2003 without any modifications.

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

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

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INTERNATIONAL STANDARD

**ISO
2815**

Second edition
2003-04-01

Paints and varnishes — Buchholz indentation test

Peintures et vernis — Essais d'indentation Buchholz

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ISO 2815:2003(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 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 2815 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 2815:1973), which has been technically revised. The main changes are as follows:

- only indentation length is now determined;
- the conversion of indentation length to indentation resistance is described in an informative annex.

Paints and varnishes — Buchholz indentation test

1 Scope

This International Standard describes a method for carrying out an indentation test on a single coating or multicoat system of paint, varnish or related product, using a Buchholz indenter. The length of the indentation produced is indicative of the residual deformation of the coating.

This indentation test is not suitable for products which contain a strong plasticizer.

NOTE 1 Since the indentation test, like other physical tests on paints, gives results which can be dependent upon time, temperature and humidity, comparable results will only be obtained if the test is carried out under well-defined conditions.

NOTE 2 Since the indentation depth depends upon the film thickness, the result obtained for the indentation length is only valid if the coating thickness exceeds a certain minimum value (see Annex A).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- ISO 1513, *Paints and varnishes — Examination and preparation of samples for testing*
- ISO 1514, *Paints and varnishes — Standard panels for testing*
- ISO 2808, *Paints and varnishes — Determination of film thickness*
- ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

3 Principle

An indenter of specified size and shape is applied to the coating under defined conditions. The indentation length is measured in millimetres (see Annex A).

4 Apparatus

4.1 Indentation apparatus

This is shown in Figure 1. It consists essentially of a rectangular block of metal, which forms the body of the instrument, an indenter and two pointed feet.