
Veziva za barve in lake - Ugotavljanje viskoznosti industrijskih celuloznih nitratnih raztopin in klasifikacija takšnih raztopin (ISO 14446:1999)

Binders for paints and varnishes - Determination of the viscosity of industrial cellulose nitrate solutions and classification of such solutions (ISO 14446:1999)

Bindemittel für Beschichtungsstoffe - Bestimmung der Viskosität technischer Cellulosenitrat-Lösungen und Einteilung solcher Lösungen (ISO 14446:1999)

Liants pour peintures et vernis - Détermination de la viscosité des solutions de nitrate de cellulose industrielles et classification de ces solutions (ISO 14446:1999)

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Ta slovenski standard je istoveten z: EN ISO 14446:2010

ICS:

87.060.20

Veziva

Binders

SIST EN ISO 14446:2012

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14446

November 2010

ICS 87.060.20; 83.080.20

English Version

**Binders for paints and varnishes - Determination of the viscosity
of industrial cellulose nitrate solutions and classification of such
solutions (ISO 14446:1999)**

Liants pour peintures et vernis - Détermination de la
viscosité des solutions de nitrate de cellulose industrielles
et classification de ces solutions (ISO 14446:1999)

Bindemittel für Beschichtungsstoffe - Bestimmung der
Viskosität technischer Cellulosenitrat-Lösungen und
Einteilung solcher Lösungen (ISO 14446:1999)

This European Standard was approved by CEN on 16 October 2010.

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 CEN 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 CEN Management Centre has the same status as the official versions.

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Foreword

The text of ISO 14446:1999 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 14446:2010 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 May 2011, and conflicting national standards shall be withdrawn at the latest by May 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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Endorsement notice

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INTERNATIONAL STANDARD

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Binders for paints and varnishes — Determination of the viscosity of industrial cellulose nitrate solutions and classification of such solutions

*Liants pour peintures et vernis — Détermination de la viscosité
des solutions de nitrate de cellulose industrielles et classification
de ces solutions*

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Reference number
ISO 14446:1999(E)

ISO 14446:1999(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.

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 14446 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 10, *Test methods for binders for paints and varnishes*.

Annex A forms a normative part of this International Standard.

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Binders for paints and varnishes — Determination of the viscosity of industrial cellulose nitrate solutions and classification of such solutions

1 Scope

This International Standard specifies a method of determining the viscosity of industrial cellulose nitrate, usually referred to as nitrocellulose, the nitrogen content of which can vary between 10,7 % by mass and 12,6 % by mass, depending on the type.

It also gives a classification system for industrial cellulose nitrate solutions (see annex A) which is based on viscosity measurements made using the method. The use of a standard procedure results in "standard" types and avoids classification differences which could be caused by the fact that there are many ways of determining viscosity and a wide variety of solvents available.

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 760:1978, *Determination of water — Karl Fischer method (General method)*.

ISO 2811-1:1997, *Paints and varnishes — Determination of density — Part 1: Pyknometer method*.

ISO 2811-2:1997, *Paints and varnishes — Determination of density — Part 2: Immersed body (plummet) method*.

ISO 2811-3:1997, *Paints and varnishes — Determination of density — Part 3: Oscillation method*.

ISO 12058-1:1997, *Plastics — Determination of viscosity using a falling-ball viscometer — Part 1: Inclined-tube method*.

ISO 15528:—¹⁾, *Paints and varnishes — Sampling*.

3 Principle

The cellulose nitrate is dissolved in an acetone/water mixture at a concentration which will depend on the type of cellulose nitrate concerned. The density of the solution is determined using a pyknometer and the viscosity using a Höppler falling-ball viscometer. The dynamic viscosity of the solution is calculated from the results obtained.

¹⁾ To be published. (Revision of ISO 842:1984 and ISO 1512:1991)