



SLOVENSKI STANDARD
SIST EN ISO 7143:2007

01-julij-2007

BUXca Yý U
SIST EN ISO 7143:2004

Veziva za barve in lake - Metode preskušanja za karakterizacijo veziv na vodni osnovi (ISO 7143:2007)

Binders for paints and varnishes - Methods of test for characterizing water-based binders (ISO 7143:2007)

Bindemittel für Beschichtungsstoffe - Prüfverfahren zur Charakterisierung von wasserverdünnbaren Bindemitteln (ISO 7143:2007)

Liants pour peintures et vernis - Méthodes d'essai pour caractériser les liants a base d'eau (ISO 7143:2007)

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Ta slovenski standard je istoveten z: EN ISO 7143:2007

ICS:

87.060.20 Veziva Binders

SIST EN ISO 7143:2007 en;fr;de

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English Version

Binders for paints and varnishes - Methods of test for characterizing water-based binders (ISO 7143:2007)

Liants pour peintures et vernis - Méthodes d'essai pour caractériser les liants à base d'eau (ISO 7143:2007)

Bindemittel für Beschichtungsstoffe - Prüfverfahren zur Charakterisierung von wasserverdünnbaren Bindemitteln (ISO 7143:2007)

This European Standard was approved by CEN on 6 February 2007.

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

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

Foreword

This document (EN ISO 7143:2007) 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 August 2007, and conflicting national standards shall be withdrawn at the latest by August 2007.

This document supersedes EN ISO 7143:2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 7143:2007 has been approved by CEN as EN ISO 7143:2007 without any modifications.

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**Binders for paints and varnishes —
Methods of test for characterizing water-
based binders**

*Liants pour peintures et vernis — Méthodes d'essai pour caractériser
les liants à base d'eau*

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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.

ISO 7143 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 10, *Test methods for binders for paints and varnishes*, in collaboration with CEN Technical Committee CEN/TC 139, *Paints and varnishes*.

This third edition cancels and replaces the second edition (ISO 7143:2000), which has been technically revised.

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The major changes are as follows: standards.iteh.ai

- a) water-based coating materials have been excluded from the scope because these products are not specified in accordance with this standard;
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- b) the determination of molecular mass has been added to Table 1;
- c) the normative references have been updated and the text has been editorially revised.

Readers should note that ISO 12000 gives definitions relative to polymer dispersions and lattices, and identifies the test methods applicable to the determination of their properties. ISO 12000 covers both aqueous and non-aqueous polymer dispersions, and products of synthetic and natural origin, including synthetic rubber latices. It was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*, in close collaboration with ISO/TC 45, *Rubber and rubber products*.

In this corrected version of ISO 7143:2007, the reference number of the standard in the fourth paragraph of the foreword has been corrected to read ISO 7143.

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Binders for paints and varnishes — Methods of test for characterizing water-based binders

1 Scope

This International Standard specifies methods of test for characterizing binders, i.e. aqueous dispersions and solutions of polymers and copolymers, in particular those used as raw materials for water-based coating materials. The properties determined will depend on whether a drying or curing system is tested.

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 976, *Rubber and plastics — Polymer dispersions and rubber latices — Determination of pH*

ISO 2115, *Plastics — Polymer dispersions — Determination of white point temperature and minimum film-forming temperature*

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

ISO 3219, *Plastics — Polymers/resins in the liquid state or as emulsions or dispersions — Determination of viscosity using a rotational viscometer with defined shear rate*

ISO 3251, *Paints, varnishes and plastics — Determination of non-volatile-matter content*

ISO 4576, *Plastics — Polymer dispersions — Determination of sieve residue (gross particle and coagulum content)*

ISO 11357-2, *Plastics — Differential scanning calorimetry (DSC) — Part 2: Determination of glass transition temperature*

ISO 11359-2, *Plastics — Thermomechanical analysis (TMA) — Part 2: Determination of coefficient of linear thermal expansion and glass transition temperature*

ISO 13741-1, *Plastics/rubber — Polymer dispersions and rubber latices (natural and synthetic) — Determination of residual monomers and other organic components by capillary-column gas chromatography — Part 1: Direct liquid injection method*

ISO 13741-2, *Plastics/rubber — Polymer dispersions and rubber latices (natural and synthetic) — Determination of residual monomers and other organic components by capillary-column gas chromatography — Part 2: Headspace method*

ISO 13885-1, *Binders for paints and varnishes — Gel permeation chromatography (GPC) — Part 1: Tetrahydrofuran (THF) as eluent*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*