



SLOVENSKI STANDARD SIST EN ISO 3251:1997

01-december-1997

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Paints and varnishes - Determination of non-volatile matter of paints, varnishes and binders for paints and varnishes (ISO 3251:1993)

Lacke und Anstrichstoffe - Bestimmung des nichtflüchtigen Anteils von Lacken, Anstrichstoffen und Bindemitteln für Lacke und Anstrichstoffe (ISO 3251:1993)

Peintures et vernis - Détermination de l'extrait sec des peintures, des vernis et des liants pour peintures et vernis (ISO 3251:1993)

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Ta slovenski standard je istoveten z: EN ISO 3251:1995

ICS:

87.040	Barve in laki	Paints and varnishes
87.060.20	Veziva	Binders

SIST EN ISO 3251:1997

en

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EUROPEAN STANDARD

EN ISO 3251

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1995

ICS 87.040

Descriptors: paints, varnishes, binders (materials), tests, chemical analysis, determination, non-volatile matter

English version

**Paints and varnishes - Determination of
non-volatile matter of paints, varnishes and
binders for paints and varnishes (ISO 3251:1993)**

Peintures et vernis - Détermination de
l'extrait sec des peintures, des vernis et des
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nichtflüchtigen Anteils von Lacken,
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<https://standards.iteh.ai/standards/sist/1995/3251/1995-05-13/3251-1995-05-13-4-b4b7->
REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
 Urad RS za standardizacijo in meroslovje
 LJUBLJANA
 SIST..... EN ISO 3251

PREVZET PO METODI RAZGLASITVE

-2- 1997

This European Standard was approved by CEN on 1995-05-13. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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

CEN

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 3251:1995

Foreword

The text of the International Standard from ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 139 "Paints and varnishes".

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 February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

According to CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 3251:1993 has been approved by CEN as a European Standard without any modification.

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NOTE: Normative references to International publications 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1512	1991	Paints and varnishes - Sampling of products in liquid or paste form	EN 21512	1994
ISO 1513	1992	Paints and varnishes - Examination and preparation of samples for testing	EN ISO 1513	1994

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INTERNATIONAL
STANDARD

ISO
3251

Second edition
1993-10-01

**Paints and varnishes — Determination of
non-volatile matter of paints, varnishes and
binders for paints and varnishes**

iTeh STANDARD PREVIEW

(standards.iteh.ai)

*Peintures et vernis — Détermination de l'extrait sec des peintures, des
verniss et des liants pour peintures et vernis*

SIST EN ISO 3251:1997

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Reference number
ISO 3251:1993(E)

ISO 3251:1993(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.

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.

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International Standard ISO 3251 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Sub-Committee SC 10, *Test methods for binders for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 3251:1974), as well as ISO 1515:1973. During the revision and combination of these two International Standards, the test method was restricted to the determination of non-volatile matter. The "Apparatus" and "Procedure" clauses in the two standards have been combined and the descriptions made more precise. In contrast to ISO 1515:1973, the test conditions (test temperature and period of heating) have to be agreed in every case (if not otherwise specified), and no single test temperature and period of heating are given as preferred test conditions.

Annex B specifies five different combinations of test conditions, and those to be used are selected from these combinations.

Annexes A, B and C form an integral part of this International Standard.

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International Organization for Standardization
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Paints and varnishes — Determination of non-volatile matter of paints, varnishes and binders for paints and varnishes

1 Scope

This International Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products. It is also applicable to binders for paints and varnishes.

It specifies a test method for determining the non-volatile matter content by mass of paints and varnishes, as well as resins and resin solutions that are intended for use as binders for paints and varnishes.

NOTE 1 The non-volatile matter content of a product is not an absolute quantity but depends upon the temperature and period of heating used for the test. Consequently, when using this method, only relative and not true values for non-volatile matter content are obtained owing to solvent retention, thermal decomposition and evaporation of low molecular mass constituents. The method is therefore primarily intended for testing different batches of the same type of product.

ISO 3233:1984, *Paints and varnishes — Determination of volume of dry coating (non-volatile matter) obtained from a given volume of liquid coating*, specifies a test method for determining the volume of non-volatile matter in paints, varnishes and related products.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

Members of IEC and ISO maintain registers of currently valid International Standards

ISO 842:—¹⁾, *Raw materials for paints and varnishes — Sampling*.

ISO 1512:1991, *Paints and varnishes — Sampling of products in liquid or paste form*.

ISO 1513:1992, *Paints and varnishes — Examination and preparation of samples for testing*.

3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 non-volatile matter: The residue by mass obtained by evaporation under specified conditions of test.

4 Required supplementary information

For any particular application, the test method specified in this International Standard needs to be completed by supplementary information. The items of supplementary information are given in annex A.

5 Apparatus

Ordinary laboratory apparatus, together with the following:

5.1 Flat-bottomed dish, of metal or glass, (75 ± 5) mm in diameter, height of the rim at least 5 mm. Dishes having different diameters may be used by agreement between the interested parties. The agreed dish diameter shall be adhered to ± 5 %.

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