



SLOVENSKI STANDARD
SIST EN ISO 17895:2005

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Paints and varnishes - Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC) (ISO 17895:2005)

Beschichtungsstoffe - Bestimmung des Gehaltes an flüchtigen organischen Verbindungen in wasserverdünnbaren Dispersionsfarben (In-can VOC) (ISO 17895:2005)

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Peintures et vernis - Détermination du contenu en composés organiques volatiles dans des peintures en émulsion a faible teneur en COV (COV en récipient) (ISO 17895:2005)

Ta slovenski standard je istoveten z: EN ISO 17895:2005

ICS:

87.040

Barve in laki

Paints and varnishes

SIST EN ISO 17895:2005

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN ISO 17895

March 2005

ICS 87.040

English version

Paints and varnishes - Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC) (ISO 17895:2005)

Peintures et vernis - Détermination du contenu en composés organiques volatiles dans des peintures en émulsion à faible teneur en COV (COV en récipient) (ISO 17895:2005)

Beschichtungsstoffe - Bestimmung des Gehaltes an flüchtigen organischen Verbindungen in wasserverdünnbaren Dispersionsfarben (In-can VOC) (ISO 17895:2005)

This European Standard was approved by CEN on 3 March 2005.

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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

EN ISO 17895:2005 (E)**Foreword**

This document (EN ISO 17895:2005) 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of an identical text or by endorsement, at the latest by September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

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

Endorsement notice

The text of ISO 17895:2005 has been approved by CEN as EN ISO 17895:2005 without any modifications.

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INTERNATIONAL STANDARD

ISO
17895

First edition
2005-03-15

Paints and varnishes — Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC)

*Peintures et vernis — Détermination du contenu en composés
organiques volatiles dans des peintures en émulsion à faible teneur en
COV (COV en récipient)*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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ISO 17895:2005(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 17895 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*.

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Introduction

The requirements imposed today by authorities, for health and environmental reasons, include the assessment of the content of residual monomers and organic saturated volatiles, sometimes down to minute traces.

This International Standard is one of a series of standards dealing with the VOC content of paints, varnishes and related products: ISO 11890-1 (see the Bibliography) specifies a method for determining VOC contents greater than 15 % (by mass), ISO 11890-2 is applicable to VOC contents between 0,1 % and 15 % (by mass).

This International Standard describes a method for determining VOC contents between 0,01 % and 0,1 % (by mass). In contrast to ISO 11890-1 and ISO 11890-2, this standard is applicable to volatile organic compounds with boiling points up to 250 °C.

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Paints and varnishes — Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC)

1 Scope

This International Standard specifies a gas-chromatographic method of quantitatively determining the volatile organic compound (VOC) content (i.e. the content of organic compounds with boiling points up to 250 °C) under standard conditions (101,325 kPa) of low VOC content emulsion paints (in-can VOC). The method is applicable to VOC contents between 0,01 % and 0,1 % (by mass).

The main purpose of the method is to qualify low-VOC emulsion paints, not routine quality control.

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

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

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

ISO 2811-4, *Paints and varnishes — Determination of density — Part 4: Pressure cup method*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

volatile organic compound VOC

any organic liquid and/or solid that evaporates spontaneously at the prevailing temperature and pressure of the atmosphere with which it is in contact

NOTE 1 As to current usage of the term VOC in the field of coating materials, see volatile organic compound content (VOC content).

NOTE 2 Under U.S. government legislation, the term VOC is restricted solely to those compounds that are photochemically active in the atmosphere (see ASTM D 3960). Any other compound is then defined as being an exempt compound.

[ISO 4618]