

Paints and varnishes - Determination of density - Part 2: Immersed body (plummet) method

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 2811-2:2002 sisaldab Euroopa standardi EN ISO 2811-2:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.02.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 2811-2:2002 consists of the English text of the European standard EN ISO 2811-2:2001.</p> <p>This document is endorsed on 14.02.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.</p> <p>It specifies a test method for determining the density of paints, varnishes and related products using balls or other round bodies as immersion bodies (plummets). The method is limited to testing materials of low or medium viscosity, and is particularly suitable for production control.</p>	<p>Scope:</p> <p>This standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.</p> <p>It specifies a test method for determining the density of paints, varnishes and related products using balls or other round bodies as immersion bodies (plummets). The method is limited to testing materials of low or medium viscosity, and is particularly suitable for production control.</p>
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ICS 87.040

Võtmesõnad: density (mass/volume), density measurement, determination, paints, tests, varnishes

English version

Paints and varnishes – Determination of density

**Part 2: Immersed body (plummet) method
(ISO 2811-2 : 1997)**

Peintures et vernis – Détermination
de la masse volumique – Partie 2:
Méthode par immersion d'un corps
(plongeur) (ISO 2811-2 : 1997)

Beschichtungsstoffe – Bestimmung
der Dichte – Teil 2: Tauchkörper-
Verfahren (ISO 2811-2 : 1997)

This European Standard was approved by CEN on 2001-06-29.

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.

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 Management Centre has the same status as the official versions.

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CEN

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

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

Foreword

International Standard

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

which was prepared by ISO/TC 35 'Paints and varnishes' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 139 'Paints and varnishes', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 2002 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 2811-2 : 1997 was approved by CEN as a European Standard without any modification.

1 Scope

This part of ISO 2811 is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

It specifies a method for determining the density of paints, varnishes and related products using balls or other round bodies as immersion bodies (plummets).

The method is limited to materials of low or medium viscosity, and is particularly suitable for production control.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 2811. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 2811 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 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 part of ISO 2811, the following definition applies.

3.1 density, ρ : The mass divided by the volume of a portion of a material, expressed in grams per millilitre (g/ml).

4 Principle

The method is based on Archimedes' principle. A container is filled with the product under test and placed on the analytical balance. The plummet is attached to a tripod and is immersed in the product under test. The density is calculated from the balance readings before the plummet is immersed in the material under test and after it is immersed.