

**Paints and varnishes - Determination of
viscosity using rotary viscometers -
Part 2: Disc or ball viscometer operated
at a specified speed**

Paints and varnishes - Determination of viscosity
using rotary viscometers - Part 2: Disc or ball
viscometer operated at a specified speed

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 2884-2:2006 sisaldab Euroopa standardi EN ISO 2884-2:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 31.07.2006 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 2884-2:2006 consists of the English text of the European standard EN ISO 2884-2:2006.</p> <p>This document is endorsed on 31.07.2006 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>
--	---

<p>Käsitlusala:</p> <p>This part of ISO 2884 specifies a general procedure for determining the viscosity of paints, varnishes and related products with a viscosity of up to 34 Pa·s. It is applicable mainly during production and thinning.</p>	<p>Scope:</p> <p>This part of ISO 2884 specifies a general procedure for determining the viscosity of paints, varnishes and related products with a viscosity of up to 34 Pa·s. It is applicable mainly during production and thinning.</p>
--	--

ICS 87.040

Võtmesõnad:

ICS 87.040

English Version

Paints and varnishes - Determination of viscosity using rotary viscometers - Part 2: Disc or ball viscometer operated at a specified speed (ISO 2884-2:2003)

Peintures et vernis - Détermination de la viscosité au moyen de viscosimètres rotatifs - Partie 2: Viscosimètre à disque ou à bille fonctionnant à vitesse spécifiée (ISO 2884-2:2003)

Beschichtungsstoffe - Bestimmung der Viskosität mit Rotationsviskosimetern - Teil 2: Scheiben- oder Kugelviskosimeter bei festgelegter Geschwindigkeit (ISO 2884-2:2003)

This European Standard was approved by CEN on 18 May 2006.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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.



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

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

Foreword

The text of ISO 2884-2:2003 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 2884-2:2006 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 December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 2884-2:2003 has been approved by CEN as EN ISO 2884-2:2006 without any modifications.

**Paints and varnishes — Determination of
viscosity using rotary viscometers —**

**Part 2:
Disc or ball viscometer operated at a
specified speed**

*Peintures et vernis — Détermination de la viscosité au moyen de
viscosimètres rotatifs —*

*Partie 2: Viscosimètre à disque ou à bille fonctionnant à vitesse
spécifiée*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2003

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	iv
1 Scope.....	1
2 Normative references	1
3 Apparatus.....	2
4 Sampling	4
5 Checking the apparatus	4
6 Procedure.....	5
7 Cleaning of apparatus.....	5
8 Expression of results.....	6
9 Precision	6
10 Test report.....	6
Bibliography	7

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 2884-2 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

ISO 2884 consists of the following parts, under the general title *Paints and varnishes — Determination of viscosity using rotary viscometers*:

- *Part 1: Cone-and-plate viscometer operated at a high rate of shear*
- *Part 2: Disc or ball viscometer operated at a specified speed*

Paints and varnishes — Determination of viscosity using rotary viscometers —

Part 2: Disc or ball viscometer operated at a specified speed

WARNING — Persons using this part of ISO 2884 should be familiar with normal laboratory practice. This part of ISO 2884 does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate health and safety practices and to ensure compliance with any national regulatory conditions.

1 Scope

This part of ISO 2884 specifies a general procedure for determining the viscosity of paints, varnishes and related products with a viscosity of up to 34 Pa·s. It is applicable mainly during production and thinning.

It supplements

ISO 2431, *Paints and varnishes — Determination of flow time by use of flow cups*;

ISO 2884-1, *Paints and varnishes — Determination of viscosity using rotary viscometers — Part 1: Cone-and-plate viscometer operated at a high rate of shear*.

For more accurate methods of measurement of viscosity, refer to 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*.

The apparatus specified may be used in both a laboratory and a factory environment to determine the viscosity of a product and to monitor the viscosity whilst thinning during a manufacturing process.

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

ISO 3104:1994, *Petroleum products — Transparent and opaque liquids — Determination of kinematic viscosity and calculation of dynamic viscosity*

ISO 3105:1994, *Glass capillary kinematic viscometers — Specifications and operating instructions*

ISO 15528:2000, *Paints, varnishes and raw materials for paints and varnishes — Sampling*