

**Paints and varnishes - Determination of
resistance to abrasion - Part 1: Rotating
abrasive-paper-covered wheel method**

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to abrasion - Part 1: Rotating abrasive-paper-
covered wheel method

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 7784-1:2006 sisaldab Euroopa standardi EN ISO 7784-1:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.05.2006 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 7784-1:2006 consists of the English text of the European standard EN ISO 7784-1:2006.</p> <p>This document is endorsed on 29.05.2006 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>
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<p>Käsitlusala:</p> <p>This part of ISO 7784 is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products. This part of ISO 7784 specifies a method for determining the resistance to abrasion of a dried film of paint, varnish or related product, using abrasive paper attached to wheels and abrading by making a rotary movement.</p>	<p>Scope:</p> <p>This part of ISO 7784 is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products. This part of ISO 7784 specifies a method for determining the resistance to abrasion of a dried film of paint, varnish or related product, using abrasive paper attached to wheels and abrading by making a rotary movement.</p>
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ICS 87.040

Võtmesõnad:

ICS 87.040

English Version

Paints and varnishes - Determination of resistance to abrasion -
Part 1: Rotating abrasive-paper-covered wheel method (ISO
7784-1:1997)

Peintures et vernis - Détermination de la résistance à
l'abrasion - Partie 1: Méthode utilisant une roue revêtue de
papier abrasif (ISO 7784-1:1997)

Beschichtungsstoffe - Bestimmung des Abriebwiderstandes
- Teil 1: Verfahren mit rotierendem Reibrad mit
Schleifpapier (ISO 7784-1:1997)

This European Standard was approved by CEN on 9 March 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.

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Foreword

The text of ISO 7784-1:1997 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 7784-1:2006 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 October 2006, and conflicting national standards shall be withdrawn at the latest by October 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 7784-1:1997 has been approved by CEN as EN ISO 7784-1:2006 without any modifications.

INTERNATIONAL STANDARD

ISO
7784-1

First edition
1997-02-15

Paints and varnishes — Determination of resistance to abrasion —

Part 1:

Rotating abrasive-paper-covered wheel
method

Peintures et vernis — Détermination de la résistance à l'abrasion —

Partie 1: Méthode utilisant une roue revêtue de papier abrasif



Reference number
ISO 7784-1:1997(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.

International Standard ISO 7784-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

ISO 7784 consists of the following parts, under the general title *Paints and varnishes* — *Determination of resistance to abrasion*:

- *Part 1: Rotating abrasive-paper-covered wheel method*
- *Part 2: Rotating abrasive rubber wheel method*
- *Part 3: Reciprocating test panel method*

Annex A forms an integral part of this part of ISO 7784. Annexes B and C are for information only.

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Introduction

This document is one of three parts of ISO 7784 dealing with the determination of resistance to abrasion of a dried film of paint, varnish or related product.

Parts 1 and 3 both specify a method using abrasive paper for determination of the resistance to abrasion. In part 2, a method using abrasive rubber wheels is described. The user of ISO 7784 should note that the methods using abrasive paper (parts 1 and 3) are the preferred methods.

Paints and varnishes — Determination of resistance to abrasion —

Part 1:

Rotating abrasive-paper-covered wheel method

1 Scope

This part of ISO 7784 is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

This part of ISO 7784 specifies a method for determining the resistance to abrasion of a dried film of paint, varnish or related product, using abrasive paper attached to wheels and abrading by making a rotary movement.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7784. 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 7784 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 48:1994, *Rubber — Determination of hardness (hardness between 30 and 85 IRHD)*.

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*.

ISO 1514:1993, *Paints and varnishes — Standard panels for testing*.

ISO 2808:—¹⁾, *Paints and varnishes — Determination of film thickness*.

ISO 6507-1:1982, *Metallic materials — Hardness test — Vickers test — Part 1: HV 5 to HV 100*.

3 Principle

A dried paint or varnish film is abraded, under specified conditions, with abrasive paper which is attached to the wheels of an abrasion testing machine. During the test, the wheels are loaded with specified weights. The

1) To be published. (Revision of ISO 2808:1991)