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Paints and varnishes - Determination of resistance to abrasion - Part 2: Method with abrasive rubber wheels and rotating test specimen (ISO 7784-2:2016)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/16

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EUROPÄISCHE NORM

EN ISO 7784-2

April 2016

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Supersedes EN ISO 7784-2:2006

English Version

**Paints and varnishes - Determination of resistance to
abrasion - Part 2: Method with abrasive rubber wheels and
rotating test specimen (ISO 7784-2:2016)**

Peintures et vernis - Détermination de la résistance à
l'abrasion - Partie 2: Méthode utilisant des roues
abrasives en caoutchouc et une éprouvette rotative
(ISO 7784-2:2016)

Beschichtungsstoffe - Bestimmung des
Abriebwiderstandes - Teil 2: Verfahren mit Reibrädern
aus Gummi und rotierender Probe (ISO 7784-2:2016)

This European Standard was approved by CEN on 27 February 2016.

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European foreword

This document (EN ISO 7784-2:2016) 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of an identical text or by endorsement, at the latest by October 2016, and conflicting national standards shall be withdrawn at the latest by October 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 7784-2:2016 has been approved by CEN as EN ISO 7784-2:2016 without any modification.

Paints and varnishes — Determination of resistance to abrasion —

Part 2: Method with abrasive rubber wheels and rotating test specimen

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

*Partie 2: Méthode utilisant des roues abrasives en caoutchouc et une
éprouvette rotative*





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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 7784-2:1997), which has been technically revised with the following changes:

- a) the title has been changed;
- b) the terms and definitions clause has been amended;
- c) the figure explaining the principle of the method was amended;
- d) the supplementary test conditions previously in Annex A have been integrated in the test report;
- e) the calibration of the apparatus previously in Annex B has been deleted;
- f) the test procedure has been re-arranged;
- g) the text has been editorially revised and the normative references have been updated.

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

- *Part 1: Method with abrasive-paper covered wheels and rotating test specimen*
- *Part 2: Method with abrasive rubber wheels and rotating test specimen*
- *Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen*

Introduction

This part of ISO 7784 is one of the three parts of ISO 7784 dealing with test methods for the determination of the resistance to abrasion of coatings using abrasive wheels. The characteristics and differences of these methods are summarized in [Table 1](#).

Table 1 — Types of method

Standard	Abrasive wheel		Test specimen movement
	Type	Degree of freedom	
ISO 7784-1	Abrasive paper on rubber wheel	Freely rotatable	Rotation
ISO 7784-2	Abrasive rubber wheel		
ISO 7784-3	Abrasive paper on metal wheel	Rigid – with stroke-dependent rotation ^a	Linear reciprocation

^a A mechanism rotates the abrasive wheel by a small angle after each double stroke so that a new area of the abrasive paper is effective.

The methods using abrasive-paper covered wheels (ISO 7784-1 and ISO 7784-3) are preferably to be applied.

Paints and varnishes — Determination of resistance to abrasion —

Part 2: Method with abrasive rubber wheels and rotating test specimen

1 Scope

This part of ISO 7784 specifies a method for determining the resistance to abrasion of coatings, for which two loaded, freely rotatable but eccentrically arranged abrasive rubber wheels affect the coating of the rotating test specimen.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 2808, *Paints and varnishes — Determination of film thickness*

ISO 3270, *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing*

ISO 4618, *Paints and varnishes — Terms and definitions*

ISO 7619-1, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 1: Durometer method (Shore hardness)*

ISO 7619-2, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 2: IRHD pocket meter method*

FEPA-Standard 43-1, *Grains of fused aluminium oxide, silicon carbide and other abrasive materials for coated abrasives Macrogrits P 12 to P 220¹⁾*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

1) FEPA: Federation of European Producers of Abrasives.