

SLOVENSKI STANDARD

SIST EN ISO 7784-1:2023

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Nadomešča:

SIST EN ISO 7784-1:2016

Barve in laki - Ugotavljanje odpornosti proti obrabi - 1. del: Metoda z brusilnim papirjem na vrteči plošči in rotirajočimi preskušanci (ISO 7784-1:2023)

Paints and varnishes - Determination of resistance to abrasion - Part 1: Method with abrasive-paper covered wheels and rotating test specimen (ISO 7784-1:2023)

Beschichtungsstoffe - Bestimmung des Abriebwiderstandes - Teil1: Verfahren mit schleifpapierbelegten Rädern und rotierender Probe (ISO 7784-1:2023)

Peintures et vernis - Détermination de la résistance à l'abrasion - Partie 1: Méthode utilisant des roues revêtues de papier abrasif et une éprouvette rotative (ISO 7784-1:2023)

Ta slovenski standard je istoveten z: EN ISO 7784-1:2023

ICS:

87.040

Barve in laki

Paints and varnishes

SIST EN ISO 7784-1:2023

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 7784-1

February 2023

ICS 87.040

Supersedes EN ISO 7784-1:2016

English Version

**Paints and varnishes - Determination of resistance to
abrasion - Part 1: Method with abrasive-paper covered
wheels and rotating test specimen (ISO 7784-1:2023)**

Peintures et vernis - Détermination de la résistance à
l'abrasion - Partie 1: Méthode utilisant des roues
revêtues de papier abrasif et une éprouvette rotative
(ISO 7784-1:2023)

Beschichtungsstoffe - Bestimmung des
Abriebwiderstandes - Teil1: Verfahren mit
schleifpapierbelegten Rädern und rotierender Probe
(ISO 7784-1:2023)

This European Standard was approved by CEN on 22 January 2023.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 7784-1:2023) 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 August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.

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

This document supersedes EN ISO 7784-1:2016.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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

Endorsement notice

The text of ISO 7784-1:2023 has been approved by CEN as EN ISO 7784-1:2023 without any modification.

INTERNATIONAL STANDARD

**ISO
7784-1**

Third edition
2023-02

Paints and varnishes — Determination of resistance to abrasion —

Part 1: Method with abrasive-paper covered wheels and rotating test specimen

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

*Partie 1: Méthode utilisant des roues revêtues de papier abrasif 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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 7784-1:2016), which has been technically revised.

The main changes are as follows:

- [Figures 1](#) and [2](#) have been updated;
- some measures in [5.1.4](#), [5.2.1](#) and in the note to [5.3](#) have been updated;
- the text has been editorially revised and the normative references have been updated.

A list of all parts in the ISO 7784 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document 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.			

It is preferable that the methods using abrasive-paper covered wheels (in this document and ISO 7784-3) are applied.

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