

SLOVENSKI STANDARD SIST EN ISO 7784-3:2023

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Barve in laki - Ugotavljanje odpornosti proti obrabi - 3. del: Metoda s kolesom, prekritim z brusilnim papirjem, in linearno izmenjajočim se preskusnim vzorcem (ISO 7784-3:2022)

Paints and varnishes - Determination of resistance to abrasion - Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen (ISO 7784-3:2022)

Beschichtungsstoffe - Bestimmung des Abriebwiderstandes - Teil 3: Verfahren mit schleifpapierbelegtem Rad und sich hin- und herbewegender Probe (ISO 7784-3:2022)

Peintures et vernis - Détermination de la résistance à l'abrasion - Partie 3: Méthode utilisant une roue revêtue de papier abrasif et une éprouvette animée d'un mouvement de va-et-vient linéaire (ISO 7784-3:2022)

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English Version

Paints and varnishes - Determination of resistance to abrasion - Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen (ISO 7784-3:2022)

Peintures et vernis - Détermination de la résistance à l'abrasion - Partie 3: Méthode utilisant une roue revêtue de papier abrasif et une éprouvette animée d'un mouvement de va-et-vient linéaire (ISO 7784-3:2022)

Beschichtungsstoffe - Bestimmung des Abriebwiderstandes - Teil 3: Verfahren mit schleifpapierbelegtem Rad und sich hin- und herbewegender Probe (ISO 7784-3:2022)

This European Standard was approved by CEN on 23 October 2022.

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EN ISO 7784-3:2022 (E)

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European foreword

This document (EN ISO 7784-3:2022) 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of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.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 7784-3:2016.

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Endorsement notice

The text of ISO 7784-3:2022 has been approved by CEN as EN ISO 7784-3:2022 without any modification.

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INTERNATIONAL STANDARD

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Paints and varnishes — Determination of resistance to abrasion —

Part 3:

Method with abrasive-paper covered wheel and linearly reciprocating test specimen

Peintures et vernis — Détermination de la résistance à l'abrasion — Partie 3: Méthode utilisant une roue revêtue de papier abrasif et une éprouvette animée d'un mouvement de va-et-vient linéaire

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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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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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 7784-3:2016), which has been technically revised.

The main changes are as follows:

- details of the materials for the precision data have been added in <u>Table 2</u>;
- ISO 7823-1 has been moved from <u>Clause 2</u> to the Bibliography;
- the percentage of the repeatability and reproducibility limits have been removed from 9.2 and 9.3, respectively.

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 the ISO 7784 series 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 <u>Table 1</u>.

Table 1 — Types of method

Standard	Abrasive wheel		Test specimen
Standard	Туре	Degree of freedom	movement
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 (ISO 7784-1 and ISO 7784-3) are applied.

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