BS EN ISO 7784-3:2016

BSI Standards Publication

Paints and varnishes — Determination of resistance to abrasion

Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen (ISO 7784-3:2016)

Documents
Document Sharing Hub

Full document details: BS EN ISO 7784-3:2016

National foreword

This British Standard is the UK implementation of EN ISO 7784-3:2016. It supersedes BS EN ISO 7784-3:2006 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/10, Test methods for paints.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2016.
Published by BSI Standards Limited 2016

ISBN 978 0 580 86187 1

ICS 87.040

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2016.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 7784-3

April 2016

ICS 87.040

Supersedes EN ISO 7784-3:2006

English Version

Paints and varnishes - Determination of resistance to abrasion - Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen (ISO 7784-3:2016)

Peintures et vernis - Détermination de la résistance à l'abrasion - Partie 3: Méthode utilisant une roue revêtue de papier abrasif et Méthode utilisant une roue revêtue de papier abrasif et une éprouvette animée d'un mouvement de va-et-vient linéaire (ISO 7784-3:2016)

Beschichtungsstoffe - Bestimmung des Abriebwiderstandes - Teil 3: Verfahren mit schleifpapierbelegtem Rad und sich hin- und herbewegender Probe (ISO 7784-3:2016)

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

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2016 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN ISO 7784-3:2016 E

Documents
Document Sharing Hub

Full document details: BS EN ISO 7784-3:2016

European foreword

This document (EN ISO 7784-3:2016) 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.

This document supersedes EN ISO 7784-3:2006.

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

Endorsement notice

The text of ISO 7784-3:2016 has been approved by CEN as EN ISO 7784-3:2016 without any modification.

Documents
Document Sharing Hub

Full document details: BS EN ISO 7784-3:2016

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Principle **2**
5 Apparatus and materials **3**
6 Test specimens **4**
6.1 Preparation of test specimens 4
6.2 Film thickness 4
6.3 Conditioning 4
7 Procedure **4**
7.1 Agreements 4
7.2 Preparation of the abrasive wheel 4
7.3 Test conditions 5
7.4 Number of determinations 5
7.5 General test procedure 5
7.6 Procedure of the pre-test 5
7.7 Procedure of the main test 6
8 Evaluation of the main test **6**
8.1 Loss in mass by abrasion 6
8.2 Abrasion resistance 6
9 Precision **6**
9.1 General 6
9.2 Repeatability limit 6
9.3 Reproducibility limit 6
10 Test report **7**
Bibliography **8**

© ISO 2016 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS EN ISO 7784-3:2016

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 7784-3:2000), 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) a 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*

© ISO 2016 – All rights reserved
Documents
Document Sharing Hub
Full document details: BS EN ISO 7784-3:2016