PD CEN ISO/TS 19392-5:2024
Incorporating corrigendum July 2024

BSI Standards Publication

Paints and varnishes — Coating systems for wind-turbine rotor blades

Part 5: Measurement of transmittance properties of UV protective coatings

bsi.

AVA Documents
Document Sharing Hub

Full document details: PD CEN ISO/TS 19392-5:2024

National foreword

This Published Document is the UK implementation of CEN ISO/TS 19392-5:2024. It is identical to ISO/TS 19392-5:2023. It supersedes PD ISO/TS 19392-5:2023, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/28, Paint systems for non-metallic substrates.

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

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

This publication is not to be regarded as a British Standard.

© The British Standards Institution 2024
Published by BSI Standards Limited 2024

ISBN 978 0 539 30867 9

ICS 87.040

Compliance with a Published Document cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 March 2023.

Amendments/corrigenda issued since publication

Date	Text affected
31 July 2024	This corrigendum renumbers PD ISO/TS 19392-5:2023 as PD CEN ISO/TS 19392-5:2024

Documents
Document Sharing Hub

Full document details: PD CEN ISO/TS 19392-5:2024

TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CEN ISO/TS 19392-5

July 2024

ICS 87.040

English Version

Paints and varnishes - Coating systems for wind-turbine rotor blades - Part 5: Measurement of transmittance properties of UV protective coatings (ISO/TS 19392-5:2023)

Matériaux de revêtement pour pales de turbines éoliennes - Partie 5: Mesurage des propriétés du facteur de transmission des revêtements de protection anti UV (ISO/TS 19392-5:2023)

Beschichtungsstoffe - Beschichtungssysteme für Rotorblätter von Windenergieanlagen - Teil 5: Messung der Transmissionseigenschaften von UV-Schutzbeschichtungen (ISO/TS 19392-5:2023)

This Technical Specification (CEN/TS) was approved by CEN on 24 June 2024 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of 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 United Kingdom.

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

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

© 2024 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. CEN ISO/TS 19392-5:2024 E

Documents
Document Sharing Hub

Full document details: PD CEN ISO/TS 19392-5:2024

European foreword

The text of ISO/TS 19392-5:2023 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 CEN ISO/TS 19392-5:2024 by Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

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.

Any feedback and questions on this document should be directed to the users' national standards body. 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 announce this Technical Specification: 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/TS 19392-5:2023 has been approved by CEN as CEN ISO/TS 19392-5:2024 without any modification.

Documents
Document Sharing Hub

Full document details: PD CEN ISO/TS 19392-5:2024

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 **2**
5.1 Film applicator for coating material 2
5.2 Substrate for free coating film preparation 2
5.2.1 Preparation of free film and test specimen 2
5.2.2 Coating application 3
5.3 Film thickness measurement 3
5.4 UV/VIS spectrophotometer 3
5.5 Long pass specification for check 4
6 Test procedure **4**
6.1 Test procedure with spectrophotometer 4
6.2 Check of spectrophotometer with long pass filter 5
6.3 Spectral transmittance of the specimen (film) 6
6.4 Calculation of transmittance 6
7 Precision **6**
8 Test report **6**
Annex A (normative) **Check of the spectral transmittance of the long pass filter** **8**
Annex B (informative) **Application and evaluation references** **9**
Bibliography **11**

© ISO 2023 – All rights reserved

Documents
Document Sharing Hub
Full document details: PD CEN ISO/TS 19392-5:2024

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 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 the following URL: 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*.

A list of all parts in the ISO/TS 19392 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.

© ISO 2023 – All rights reserved
Documents
Document Sharing Hub
Full document details: PD CEN ISO/TS 19392-5:2024