

EUROPEAN STANDARD

EN ISO 12625-16

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2024

ICS 85.080.20

Supersedes EN ISO 12625-16:2015

English Version

Tissue paper and tissue products - Part 16: Determination of optical properties - Diffuse reflectance method for opacity (paper backing) (ISO 12625-16:2024)

Papier tissue et produits tissue - Partie 16:
Détermination des propriétés optiques - Méthode par
réflectance diffuse de l'opacité sur fond papier (ISO
12625-16:2024)

Tissue-Papier und Tissue-Produkte - Teil 16:
Bestimmung der optischen Eigenschaften - Opazität
über Papierstapel - Diffuser Reflexionsfaktor (ISO
12625-16:2024)

This European Standard was approved by CEN on 4 May 2024.

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, 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.

<https://standards.iteh.ai>
SIST EN ISO 12625-16:2024

<https://standards.iteh.ai/catalog/standards/sist/55b5da03-8e74-41e9-940e-13185cfa1787/sist-en-iso-12625-16-2024>



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

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

Contents	Page
European foreword.....	3

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[SIST EN ISO 12625-16:2024](https://standards.itih.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024)

<https://standards.itih.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024>

European foreword

This document (EN ISO 12625-16:2024) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee CEN/TC 172 "Pulp, paper and board" 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 November 2024, and conflicting national standards shall be withdrawn at the latest by November 2024.

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 12625-16:2015.

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.

iTeh Standards
(<https://standards.iteh.ai>)
Endorsement notice

The text of ISO 12625-16:2024 has been approved by CEN as EN ISO 12625-16:2024 without any modification.

[SIST EN ISO 12625-16:2024](https://standards.iteh.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024)

<https://standards.iteh.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024>



**International
Standard**

ISO 12625-16

**Tissue paper and tissue products —
Part 16:
Determination of optical properties
— Diffuse reflectance method for
opacity (paper backing)**

Papier tissue et produits tissue —

*Partie 16: Détermination des propriétés optiques — Méthode par
réflectance diffuse de l'opacité sur fond papier*

**Second edition
2024-05**

[SIST EN ISO 12625-16:2024](https://standards.iteh.ai/)

<https://standards.iteh.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024>

ISO 12625-16:2024(en)

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 12625-16:2024](https://standards.iteh.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024)

<https://standards.iteh.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO 12625-16:2024(en)

Contents

	Page
Foreword.....	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	3
5.1 Reflectometer.....	3
5.2 Reference standards.....	3
5.3 Working standards.....	3
5.4 Black cavity.....	3
6 Sampling	3
7 Conditioning	4
8 Preparation of test pieces	4
9 Procedure	4
10 Calculation	5
11 Test report	5
Annex A (informative) Spectral characteristics of reflectometers for measuring luminous factor	6
Annex B (normative) Precision	10
Bibliography	12

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[SIST EN ISO 12625-16:2024](https://standards.itih.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024)

<https://standards.itih.ai/catalog/standards/sist/55b5da03-8e74-41c9-940e-13185cfa1787/sist-en-iso-12625-16-2024>

ISO 12625-16:2024(en)

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 172, *Pulp, paper and board*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 12625-16:2015), which has been technically revised.

The main changes are as follows:

- Information has been added to [Annex A](#) to explain calculations for instruments with bandpass correction; [Table A.2](#) provides weighting functions needed for calculations related to instruments with bandpass correction.

A list of all parts in the ISO 12625 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.