

Irish Standard I.S. EN ISO 535:2023

Version 2.00

Paper and board - Determination of water absorptiveness - Cobb method (ISO 535:2023)

I.S. EN ISO 535:2023 V2.00

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

NSAI/... xxx: A National adoption of a Technical Regulation (TR), Technical Specification (TS), CEN and/or CENELEC Workshop Agreement (CWA).

I.S. EN ISO 535:2023 V2.00 was published under the authority of the NSAI and came into effect on: 2023-04-06

ICS number(s): 85.060

NSAI 1 Swift Square Northwood, Santry Dublin 9 D09 A0E4 +353 1 807 3800 standards@nsai.ie NSAI.ie Sales +353 1 857 6730 <u>Standards.ie</u>

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN ISO 535:2023 V2.00 is the version of the NSAI adopted European document EN ISO 535:2023, *Paper and board - Determination of water absorptiveness - Cobb method (ISO 535:2023)*, including any Corrections, Amendments etc. to EN ISO 535:2023.

This normative document by CEN/CENELEC the elaboration of which includes a public enquiry, followed by a Formal Vote of CEN/CENELEC national members and final ratification. This European Standard is published as an identical national standard and every conflicting national standard will be withdrawn. The content of a European Standard does not conflict with the content of any other EN (and HD for CENELEC).

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

For relationships with other publications refer to the NSAI web store.

Conformance with this document does not of its self confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

I.S. EN ISO 535:2023 V2.00

This page intentionally left blank

EUROPEAN STANDARD

EN ISO 535

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2023

ICS 85.060

Supersedes EN ISO 535:2014

English Version

Paper and board - Determination of water absorptiveness -Cobb method (ISO 535:2023)

Papier et carton - Détermination de la capacité d'absorption d'eau - Méthode de Cobb (ISO 535:2023)

Papier und Pappe - Bestimmung des Wasserabsorptionsvermögens - Cobb-Verfahren (ISO 535:2023)

This European Standard was approved by CEN on 13 February 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.

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

© 2023 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN ISO 535:2023 E

I.S. EN ISO 535:2023 V2.00 EN ISO 535:2023 (E)

Contents	Page
European foreword	2

European foreword

This document (EN ISO 535:2023) 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 October 2023, and conflicting national standards shall be withdrawn at the latest by October 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 535:2014.

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 535:2023 has been approved by CEN as EN ISO 535:2023 without any modification.

I.S. EN ISO 535:2023 V2.00	This is a free page sample. Access the full version online.			
This page intentionally left blank				
	F0			

I.S. EN ISO 535:2023 V2.00 ISO 535:2023(E)

Contents		Page
Fore	eword	
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Reagents and materials	2
6	Apparatus	
7	Sampling	
8	Conditioning	
9	Preparation of test pieces	
	•	
10	Procedure	
	10.1 General 10.2 Mounting of the test pieces	
	10.3 Exposure to water and blotting	
	10.5 Rejection of test pieces	
11	Expression of results	5
12	Precision	6
13	Test report	6
Ann	nex A (informative) Precision	
	nex B (informative) Suitable blotting paper	
DIDI	liography	

I.S. EN ISO 535:2023 V2.00 ISO 535:2023(E)

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 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 fourth edition cancels and replaces the third edition (ISO 535:2014), which has been technically revised.

The main changes are as follows:

- requirements in <u>5.1</u> and <u>5.2</u> added;
- Clause 6 and 6.2 revised;
- preparation of test pieces added in <u>Clause 9</u>;
- Subclauses 10.3 and 10.4 revised and requirements added;
- several additional explanations added in <u>10.5</u>.

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.

Paper and board — Determination of water absorptiveness — Cobb method

1 Scope

This document specifies a method for determining the water absorptiveness of paper and board, including corrugated fibreboard, under standard conditions.

This document is not applicable for paper of grammage less than 50 g/m^2 or embossed paper. It is not applicable for porous papers such as newsprint or papers such as blotting paper or other papers having a relatively high-water absorptiveness for which ISO 8787 is more suitable.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 186, Paper and board — Sampling to determine average quality

ISO 187, Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples

ISO 14487, Pulps — Standard water for physical testing

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

3.1

water absorptiveness

Cobb value

calculated mass of water absorbed in a specified time by 1 m² of paper or board under specified conditions

Note 1 to entry: The test area is normally 100 cm².

4 Principle

A test piece is weighed immediately before and after exposure for a specified time of one surface to water, followed by blotting. The result of the increase in mass is expressed in grams per square metre (g/m^2) .

The test piece shall not show any sign of penetration through or leakage outside the test ring (see 10.5).



This is a free preview	 Purchase the entire 	e publication at the link below:
------------------------	---	----------------------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation