

भारतीय मानक मसौदा  
कागज और संबद्ध उत्पादों के लिए नमूना चयन और परीक्षण की पद्धतियाँ  
भाग 5 कागज और बोर्ड के लिए परीक्षण पद्धतियाँ  
अनुभाग 4 पानी का अवशोषकता शक्ति का निर्धारण - कब पद्धति  
( तीसरा पुनरीक्षण )

*Draft Indian Standard*  
**Methods of Sampling and Test for  
Paper and Allied Products**  
Part 5 Methods of Test for Paper and Board  
Section 4 Determination of water absorptiveness — Cobb method  
( *Third Revision* )

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ICS 85.060

Paper And Its Products Sectional Committee,  
CHD 15

**Last date of comments: 20<sup>th</sup> September 2023**

## NATIONAL FOREWORD

*(Formal clauses added to be later)*

This standard was originally published in 1956 and subsequently revised in 1966. During the formulation and revision of this standard due weightage was given to the then existing International Standards.

Considering the benefits of aligning standards with that of international best practices, in 2014, the committee decide to revise this standard by identical adoption of ISO 535: 1991, 'Paper and board — Determination of water absorptiveness — Cobb method' under dual numbering.

ISO has published relevant test method standards under the three broad based titles namely 'Paper, board and pulps', 'Paper and board' and 'Pulps'. To maintain consistency with the prevailing international practices and also to facilitate search of the relevant test methods instantly, all adopted standards are published under the following two series;

(a) IS 1060 series on 'Methods of sampling and test for paper and allied products', and

(Part 4) Methods of test for paper, board and pulp

(Part 5) Methods of test for paper and board

(Part 6) Methods of test for paper

(Part 7) Methods of test for board

(b) IS 6213 series for ‘Methods of test for pulps’.

Considering that 2014 version of this standard was identical adoption of ISO 535: 1991, the committee decided to further revise this standard by aligning it with ISO 535: 2023, under dual numbering. During this revision, following changes have been made:

- i. Requirements in 5.1 and 5.2 added;
- ii. Clause 6 and 6.2 revised;
- iii. Preparation of test pieces added in Clause 9;
- iv. Sub clauses 10.3 and 10.4 revised and requirements added;
- v. Several additional explanations added in 10.5;
- vi. Inclusion of precision data

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 186 Paper and board — Sampling to determine average quality	IS 1060 ( Part 5 / Sec 1 ) : 2014 Methods of Sampling and Test for Paper and Allied Products Part 5 Methods of Test for Paper and Board Section 1 Sampling to determine average quality	Identical with ISO 186: 2002
ISO 187 Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples	IS 1060 (Part 4/Sec 1) : 2014 Methods of sampling and test for paper and allied products: Part 4 methods of test for paper, board and pulp: Sec 1 standard atmosphere for conditioning and testing and	Identical with ISO 187: 1990

procedure for monitoring the  
atmosphere and conditioning of  
samples

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 14487	Pulps — Standard water for physical testing

In this adopted standard, reference appears to certain International Standards where the standard atmospheric conditions to be observed are stipulated which are not applicable to tropical / sub-tropical countries. The applicable standard atmospheric conditions for Indian conditions are  $27 \pm 2^\circ\text{C}$  and  $65 \pm 5$  percent relative humidity and shall be observed while using this standard.

In reporting the result of a test made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2:2022 'Rules for rounding off numerical values (*second revision*)'.