

Methods for

Determining optical properties of pulp, paper and board —

Part 4: Measurement of diffuse blue reflectance factor (ISO brightness) of pulps

[ISO title: Pulps — Measurement of diffuse blue reflectance factor
(ISO brightness)]

UDC 676.017.55:535.361.2 – 26

Cooperating organizations

The Paper Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government department and professional and industrial organizations:

- British Paper and Board Industry Federation (PIF)*
- British Printing Industries Federation*
- Envelope Makers' and Manufacturing Stationers' Association*
- Her Majesty's Stationery Office*
- Institute of Trading Standards Administration
- National Association of Paper Merchants
- Pira (The Research Association for the Paper and Board, Printing and Packaging Industries)*
- Royal Institute of Public Health and Hygiene

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

- British Wood Pulp Association
- Chemical Industries Association
- Fibreboard Packing Case Manufacturers' Association
- Man-made Fibres Producers' Committee
- Ministry of Defence
- Post Office
- Society of British Printing Ink Manufacturers
- University of Manchester, Institute of Science and Technology

This British Standard, having been prepared under the direction of the Paper Standards Committee, was published under the authority of the Executive Board and comes into effect on 31 March 1980

© BSI 10-1999

The following BSI references relate to the work on this standard:
Committee reference PAS/11
Draft for comment 75/61957 DC

ISBN 0 580 11204 7

Amendments issued since publication

Amd. No.	Date of issue	Comments
3968	September 1982	Indicated by a sideline in the margin

Contents

	Page
Cooperating organizations	Inside front cover
National foreword	ii
0 Introduction	1
1 Scope and field of application	1
2 References	1
3 Definitions	1
4 Reagents and auxiliary materials	1
5 Apparatus	1
6 Sampling	2
7 Preparation of test sheets	2
8 Procedure	3
9 Expression of results	3
10 Precision	3
11 Test report	3
Annex General information on ISO brightness and reflectance factor standards for papers, boards and pulps	4
Bibliography	5
Publications referred to	Inside back cover

National foreword

This British Standard has been prepared under the direction of the Paper Standards Committee. It is identical with ISO 3688 “*Pulps — Measurement of diffuse blue reflectance factor (ISO brightness)*”, which was developed by Technical Committee ISO/TC 6, Paper, board and pulps, and was published by the International Organization for Standardization (ISO).

This Part of this British Standard is one of a series relating to the determination of the optical properties of pulp, paper and board. Other Parts of this British Standard already published are:

- *Part 1: Measurement of diffuse reflectance factor of paper, board and pulps;*
- *Part 2: Measurement of diffuse blue reflectance factor (ISO brightness) of paper and board;*
- *Part 3: Determination of opacity (paper backing) of paper and board by the diffuse reflectance method.*

The footnote to the annex (page 4) states that up-to-date lists of standardizing and authorized laboratories are available from the Secretariat of ISO/TC 6 (AFNOR) or from the ISO Central Secretariat. Within the United Kingdom, ISO reference standards of level 3, which are issued by authorized laboratories, can be obtained from the Research Association for the Paper and Board, Printing and Packaging Industries (PIRA), Randalls Road, Leatherhead, Surrey.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication, without deviation, as a British Standard. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

The comma has been used throughout as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Cross-references

International Standard	Corresponding British Standard
ISO 2469:1977	BS 4432 <i>Methods for determining optical properties of pulp, paper and board</i> Part 1:1980 <i>Measurement of diffuse reflectance factor of paper, board and pulps</i> (Identical)
ISO 2470:1977	Part 2:1980 <i>Measurement of diffuse blue reflectance factor (ISO brightness) of paper and board</i> (Identical)
ISO 2471:1977	Part 3:1980 <i>Determination of opacity (paper backing) of paper and board by the diffuse reflectance method</i> (Identical)

Additional information. There is at present no corresponding British Standard to ISO 5263:1979, to which reference is made in 5.4 and 7.1.1. The technical committee has reviewed the provisions of the International Standard and has decided that they are acceptable for use in conjunction with this standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.