

Australian/New Zealand Standard

Methods of test for pulp and paper

Method 466s: Preparation of laboratory sheets for the measurement of diffuse blue reflectance factor (ISO brightness)



AS/NZS 1301.466s:2005

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PK-019, Methods of Test for Pulp and Paper. It was approved on behalf of the Council of Standards Australia on 12 May 2005 and on behalf of the Council of Standards New Zealand on 20 May 2005.

This Standard was published on 3 June 2005.

The following are represented on Committee PK-019:

Australian Plantation Products and Paper Industry Council (A3P)
Appita
CSIRO Forestry and Forest Products
National Association of Forest Industries
New Zealand Forest Research Institute

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This Standard was issued in draft form for comment as DR 05128.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 1301.466S:2005

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of diffuse blue reflectance factor (ISO brightness)**

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 12 June 2020.

Approved for reconfirmation in New Zealand on behalf of the New Zealand Standards Approval Board on 21 July 2020.

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First published as AS/NZS 1301.466s:2005.

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Jointly published by Standards Australia, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6745 1

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PK-019, Methods of Test for Pulp and Paper.

The objective of this Standard is to specify two procedures for the preparation of laboratory sheets prior to measuring the diffuse blue reflectance factor (ISO brightness).

This Standard is identical with and has been reproduced from ISO 3688:1999, *Pulps—Preparation of laboratory sheets for the measurement of diffuse blue reflectance factor (ISO brightness)*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
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The references to International Standards should be replaced by references to the following Australian/New Zealand Standards.

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
2469	Paper, board and pulps— Measurement of diffuse reflectance factor	1301 1301.464s	Method 1301: Methods of test for pulp and paper Method 464s: Equipment for measurement of diffuse reflectance factor
2470	Paper and board—Measurement of diffuse blue reflectance factor (ISO brightness)	1301.462s	Method 462s: Measurement of diffuse blue reflectance factor (ISO brightness) of pulp, paper and paperboard
5263	Pulps—Laboratory wet disintegration	1301.214s	Method 214s: Equipment for preparation of handsheets
5269	Pulps—Preparation of laboratory sheets for physical testing	1301.214s	Method 214s: Equipment for preparation of handsheets
5269-1	Part 1: Conventional sheet-former method		

INTRODUCTION

The reflectance factor depends on the manner of preparation of the laboratory sheets and also on the conditions of measurement, particularly the spectral and geometric characteristics of the instrument used.

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AUSTRALIAN/NEW ZEALAND STANDARD

Methods of test for pulp and paper

Method 466s:

Preparation of laboratory sheets for the measurement of diffuse blue reflectance factor (ISO brightness)

1 Scope

This International Standard specifies two procedures for the preparation of laboratory sheets prior to measuring the diffuse blue reflectance factor (ISO brightness). One is the traditional procedure based on preparation of sheets in a Büchner funnel using a filter paper or a wire screen. In the other procedure, the sheets are prepared in a standard sheet former (conventional or Rapid Köthen).

Details of the subsequent measurement procedure are given in ISO 2470.

It is applicable to all wood pulps and to most other types of pulp. Pulps with very long fibres, such as those made from unshortened cotton, flax and similar materials, shall be reduced to a suitable fibre length before testing by this method.

This International Standard shall be used in conjunction with ISO 2469 and ISO 2470.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2469:1994, *Paper, board and pulps — Measurement of diffuse reflectance factor.*

ISO 2470:—¹⁾, *Paper and board — Measurement of diffuse blue reflectance factor (ISO brightness).*

ISO 5263:1995, *Pulps — Laboratory wet disintegration.*

ISO 5269-1:1998, *Pulps — Preparation of laboratory sheets for physical testing — Part 1: Conventional sheet-former method.*

ISO 5269-2:1998, *Preparation of laboratory sheets for physical testing — Part 2: Rapid-Köthen method.*

3 Reagents

During the sheet preparation, use only reagents of recognized analytical grade and only distilled water or water of equivalent purity, free from colouring matter and from iron and copper ions.

NOTE Distilled water is used to ensure that the brightness of the sample is not affected by the water.

1) To be published. (Revision of ISO 2470:1977)