

Australian/New Zealand Standard™

Methods of test for pulp and paper

**Method 203s: Forming handsheets for
physical testing of pulp**



AS/NZS 1301.203s:2007

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 14 November 2007 and on behalf of the Council of Standards New Zealand on 30 November 2007.
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The following are represented on Committee PK-019:

Australian Institute of Packaging
Australian Plantation Products and Paper Industry Council (A3P)
Appita
Ensis Papro, SCION
National Association of Forest Industries

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RECONFIRMATION
OF
AS/NZS 1301.203s:2007
Methods of test for pulp and paper
Method 203s: Forming handsheets for physical testing of pulp

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The following are represented on Technical Committee PK-019:

Appita
New Zealand Paper Forum
Monash University
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NOTES

Australian/New Zealand Standard™

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Method 203s: Forming handsheets for physical testing of pulp

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Foreword

This standard was prepared by Joint Technical Committee PK-019, Methods of Test for Pulp and Paper, as part of AS/NZS 1301, *Methods of test for pulp and paper*.

This edition cancels and replaces AS/NZS 1301.203s:1993.

This Standard has been revised for technical reasons; particularly to define the disintegration procedure more precisely and to correct an erroneous statement in the couching procedure.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

NOTES

Forming handsheets for physical testing of pulp

1 Scope

This Standard prescribes the procedure to be used for making handsheets from samples of pulp for subsequent physical testing according to AS/NZS 1301.208s. Two sheet making procedures are described. One involves draining an aliquot of stock on a wire, discarding the white water and then couching, pressing and drying the formed sheet. The second, which is particularly applicable to high-yield pulps, uses the same technique except that the white water, instead of being discarded, is recirculated so that the contribution of the fines fraction is not lost.

2 Normative references

The following documents are referred to in this standard.

AS

1301.417s Sampling paper, board and pulp for testing

AS/NZS

1301.206s Freeness of pulp

1301.207s Determination of stock concentration

1301.208s Physical testing of pulp handsheets

1301.214s Equipment for preparation of handsheets

1301.215s Removal of latency

1301.415s Standard atmosphere for testing paper and board and procedure for monitoring the atmosphere

NZS

1301.417s Sampling paper, board and pulp for testing

3 Apparatus

3.1 Sheetmaking equipment—as described in AS/NZS 1301.214s.

4 Preparation of sample

4.1 General

If the handsheets are being formed to evaluate a pulp lot, the sample shall be selected in accordance with AS 1301.417s/NZS 1301.417s. If the sheets are being formed from another type of sample, report the source of the sample and, if possible, the sampling procedure used.

Make sure that the portions taken for making handsheets are representative of the pulp.

If the pulp is not processed immediately, store the sample in a cool dark place. Protect dry samples from dust by wrapping or by the use of dustproof containers. Store slush pulp and moist pulp in airtight containers.

Use distilled or deionized water, or the equivalent, for all operations up to and including dilution in the stock divider [1], [2] and [3]. The water used in the sheet machine need not be this quality, but it must be colourless and free from suspended matter and entrained air, except when using recycled white water.

4.2 Conventional sheet former

If it is required that latency in the pulp be removed, which is usually the case with mechanical pulps, do this according to AS/NZS 1301.215s and then proceed to Clause 4.4.