

Australian/New Zealand Standard™

Methods of test for pulp and paper

**Method 010s: Determination of
moisture in wood chips**



AS/NZS 1301.010s: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 19 February 2007 and on behalf of the Council of Standards New Zealand on 16 March 2007.
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The following are represented on Committee PK-019:

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

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION
OF
AS/NZS 1301.010s:2007
Methods of test for pulp and paper
Method 010s: Determination of moisture in wood chips

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Technical Committee PK-019 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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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 010s: Determination of moisture in wood chips

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Foreword

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

This edition cancels and replaces AS/NZS 1301.010s:2002.

This revision has been made to remove the distillation method for determination of moisture content.

NOTES

Determination of moisture in wood chips

1 Scope

This Standard prescribes the oven-drying method for the determination of moisture content of wood chips.

2 Normative references

The following document is referred to in this standard.

AS/NZS 1301.013rp, Sampling of wood chips for testing.

3 Principle

For the oven-drying method the sample is dried to a constant mass at $105 \pm 2^\circ\text{C}$.

4 Apparatus

4.1 Drying oven, capable of being maintained at an air temperature of $105 \pm 2^\circ\text{C}$ in the useable volume and having forced ventilation.

4.2 Balance, capable of weighing the test specimen and specimen container to within $\pm 0.1\text{g}$.

4.3 Specimen containers, for the transporting and weighing of test pieces, made from a lightweight material not subject to change under conditions of drying.

4.4 Desiccator, of a size sufficiently large to accommodate the specimen container and equipped with air-tight lid/door and containing fresh desiccant.

NOTE 1 — A desiccator is not required if the laboratory elects to weigh hot specimens (see NOTE 2).

5 Preparation of sample

Collect a representative wood chip sample. This may present considerable difficulty. The sampling plan must be one which is appropriate to the circumstances. In particular, experience has shown that taking samples directly from a chip pile can lead to considerable errors. For this method it is recommended that regular samples be taken from the input to the pile or from the outlet stream moving to the next processing stage. AS/NZS 1301.013rp describes the procedure for sampling of wood chips.

6 Procedure

Carry out the following procedure in at least triplicate:

- (a) Weigh the dry and empty specimen container (W_c).
- (b) Fill the specimen container with at least 200 g of the sample as taken and weigh it again immediately (W_1).
- (c) Dry the specimen in the oven, either in its container, or take the wood chips from the container and spread out to expose the maximum surface area. If removal from the container could result in chips being lost, it must be dried in the container. If the specimen is taken from its container, dry the container under the same conditions. After a suitable interval, which may be determined by experience, replace the specimen in its container if it has been removed for drying, and weigh the filled container. Weighing can be carried out either immediately after removal of the specimen from the oven, that is while hot, or after the specimen has been placed in a suitably sized desiccator to cool down.