

Australian/New Zealand Standard™

**Methods for sampling and analysing  
timber preservatives and preservative-  
treated timber**

**Part 4: Analysis methods for  
determination of preservative solution  
concentration**



## **AS/NZS 1605.4:2006**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TM-006, Timber Preservation and Durability. It was approved on behalf of the Council of Standards Australia on 21 April 2006 and on behalf of the Council of Standards New Zealand on 5 May 2006.

This Standard was published on 27 June 2006.

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The following are represented on Committee TM-006:

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*This Standard was issued in draft form for comment as DR 06082.*

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# Australian/New Zealand Standard™

## **Methods for sampling and analysing timber preservatives and preservative- treated timber**

### **Part 4: Analysis methods for determination of preservative solution concentration**

Originated in Australia as AS 1605—1974.  
AS 1605—1974 revised and designated AS/NZS 1605:1998.  
Second edition 2000.  
AS/NZS 1605:2000 revised and redesignated, in part, AS/NZS 1605.4:2006.

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 7539 X

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-006, Timber Preservation and Durability, to supersede (in part), AS/NZS 1605:2000, *Methods for sampling and analysing timber preservatives and preservative-treated timber*.

The objective of this Standard is to set out a series of methods for sampling and analysing timber preservatives and preservative-treated timber.

This revision separates the current AS/NZS 1605 into a four-part series as follows:

### AS/NZS

- 1605 Methods for sampling and analysing timber preservatives and preservative-treated timber
- 1605.1 Part 1: General requirements, sampling, and determination of sapwood and heartwood presence
- 1605.2 Part 2: Determination of preservative penetration by spot tests
- 1605.3 Part 3: Analysis methods for determination of preservative retention
- 1605.4 Part 4: Analysis methods for determination of preservative solution concentration (this Standard)

The preservatives approved for use and incorporated in the AS/NZS 1604 series are required to be accompanied by analytical methods for their determination, which are incorporated in the AS/NZS 1605 series.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Methods for sampling and analysing timber preservatives and preservative-treated timber****Part 4: Analysis methods for determination of preservative solution concentration**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies the analysis methods for the determination of preservative solution concentration. Analytical procedures for the determination of specific preservative components are given for oil-borne and waterborne preservatives. The calculations necessary for determining compliance with requirements specified in the AS/NZS 1604 series, or the relevant Standard, are outlined.

NOTE: The analytical methods given in this Standard are intended as referee methods for the estimation of timber preservatives. Alternative methods should be compared with methods presented in this Section before being routinely used.

**1.2 APPLICATION**

This Standard should be read in conjunction with the AS/NZS 1604 series or the relevant Standard to which timber is claimed to have been treated, and AS/NZS 1605.1.

Methods for sampling and analysing timber preservatives and preservative-treated timber are categorized into the following Parts of the AS/NZS 1605 series, according to the general nature of the tests:

- (a) Sampling preservative liquids and preservative-treated timber ..... Part 1.
- (b) Determination of presence of sapwood and heartwood..... Part 1.
- (c) Determination of preservative penetration by spot tests ..... Part 2.
- (d) Analysis of preservative retention ..... Part 3.
- (e) Analysis of preservative solution concentration ..... Part 4.

**1.3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS

2026 Laboratory glassware—Density hydrometers

2163 Laboratory glassware—Measuring cylinders

3529 Solvents—Toluene

AS/NZS

1604 Specification for preservative treatment (all Parts)