

Australian Standard™

**Copper tubes for plumbing, gasfitting
and drainage applications**



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This Australian Standard was prepared by Committee WS-018, Copper and Copper Alloy Tubes for Plumbing and Gasfitting. It was approved on behalf of the Council of Standards Australia on 14 April 2004 and published on 7 July 2004.

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Australian Industry Group
Copper Development Centre Australia
CSIRO Manufacturing & Infrastructure Technology
Certification Bodies (Australia)
Department of Land and Water Conservation
Master Plumbers Australia
WSAA Water Services Association of Australia

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1432—2004

Copper tubes for plumbing, gasfitting and drainage applications

RECONFIRMATION NOTICE

Technical Committee WS-018 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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NOTES

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**Copper tubes for plumbing, gasfitting
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PREFACE

This Standard was prepared by the Standards Australia Committee WS-018, Copper and Copper Alloy Tubes for Plumbing and Gasfitting to supersede AS 1432—1996 *Copper tubes for plumbing, gasfitting and drainage applications*.

The objective of this Standard is to provide manufacturers with requirements for copper tubes for use in plumbing, gasfitting and drainage applications.

The principal changes from the previous edition are as follows:

- (a) Alignment of the Standard for compliance with AS/NZS 4020:2002, *Testing of products for use in contact with drinking water*.
- (b) Inclusion of internal surface quality requirements.
- (c) Pneumatic test incorporated as an option for watertightness.
- (d) Inclusion of layer wound packs (LWP).
- (e) Inclusion of a comprehensive test plan to demonstrate manufacturing compliance with this Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard**Copper tubes for plumbing, gasfitting and drainage applications**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for round seamless copper tubes intended for use in low pressure and non-pressure plumbing, gasfitting and drainage applications.

1.2 APPLICATION**1.2.1 General**

Means for demonstrating compliance with this Standard are given in Appendix A.

NOTES:

- 1 Guidelines to purchasers on information that should be supplied at the time of enquiry or order are detailed in Appendix B.
- 2 Safe working pressures and testing pressures for copper tubes are given in Appendix C.
- 3 Installation, commissioning and testing procedures for installed copper tubes are given in AS 4809.

1.2.2 Classification

Tubes are classified into four types specified by wall thickness:

- (a) Type A as given in Table 4.1.
- (b) Type B as given in Table 4.2.
- (c) Type C as given in Table 4.3.
- (d) Type D as given in Table 4.4.

1.2.3 Designation

Tubes shall be designated by—

- (a) the number of this Standard (AS 1432);
- (b) the nominal size (see Tables 4.1 to 4.4 inclusive); and
- (c) the classification (Types A, B, C or D).

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1349	Bourdon tube pressure and vacuum gauges
1817	Metallic materials—Vickers hardness test
1817.1	Part 1: Test methods (ISO 6507-1:1997, MOD)
2084	Non-destructive testing—Eddy current testing of metal tubes
2738	Copper and copper alloys—Compositions and designations of refinery products, wrought products, ingots and castings.