AS 1572—1998
Reconfirmed 2018

Australian Standard™

Copper and copper alloys—Seamless tubes for engineering purposes

This Australian Standard was prepared by Committee MT/2, Copper and Copper Alloys. It was approved on behalf of the Council of Standards Australia on 21 August 1998 and published on 5 November 1998.

The following interests are represented on Committee MT/2:

AUSTAP

Australian Forging Group

Hunter Water Corporation

Metal Trades Industry Association of Australia

New Zealand Manufacturers Federation

Water Corporation Western Australia

Welding Technology Institute of Australia

Additional interests participating in preparation of Standard:

Copper tube manufacturers

Electrical appliance manufacturers

Ship building organizations

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Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 97410.

STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 1572–1998
Copper and copper alloys–Seamless tubes for engineering purposes

RECONFIRMATION NOTICE

Major stakeholders of this publication have 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.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 29 August 2018.

NOTES

Australian Standard™

Copper and copper alloys—Seamless tubes for engineering purposes

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MT/2, Copper and Copper Alloys, to supersede AS 1572—1985.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

The objective of this revision is to upgrade the requirements for round, square and rectangular seamless copper and copper alloy tubes for general purposes.

In this edition the alloy designations have been changed from the three-digit numbering system to a system, which, although aligning with the American Unified Numbering System (UNS), contains minor variations in the manner impurity levels are specified.

During the preparation of this Standard cognizance was taken of the following International Standards:

ISO
274:1975 Copper tubes of circular section—Dimensions
1635:1974 Wrought copper and copper alloys—Round tubes for general purposes—Mechanical properties.

These Standards were not considered to be appropriate replacements for AS 1572 as their coverage is limited to dimensions and mechanical properties.

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

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STANDARDS AUSTRALIA

Australian Standard

Copper and copper alloys—Seamless tubes for engineering purposes

1 SCOPE This Standard specifies requirements for round, square and rectangular seamless copper and copper alloy tubes for general purposes. It does not apply to tubes for heat exchangers (see AS 1569) or tubes for airconditioning (see AS/NZS 1571).

NOTE: Advice and recommendations on information to be supplied by the purchaser at the time of enquiry or order are contained in the purchasing guidelines set out in Appendix A.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS
1391 Methods for tensile testing of metals

1515 Copper alloys (all parts)

1569 Copper and copper alloys—Seamless tubes for heat exchangers

1696 Copper
1696.1 Part 1: Determination of phosphorus—Spectrophotometric method

1733 Methods for the determination of grain size in metals

1817 Metallic materials—Vickers hardness test

2084 Non-destructive testing—Eddy current testing of metal tubes

2136 Method for detecting the susceptibility of copper and its alloys to stress corrosion cracking using the mercurous nitrate test

2614 Copper and copper alloys—Sampling for chemical and spectrochemical analysis, and physical testing

2706 Numerical values—Rounding and interpretation of limiting values

4041 Pressure piping

AS/NZS
1571 Copper—Seamless tubes for airconditioning and refrigeration

BS
1748 Methods for the analysis of copper alloys (all parts)

ASTM
E 243 Practice for electromagnetic (eddy-current) examination of copper and copper-alloy tubes

3 DESIGNATION

3.1 General The designation shall include the number of this Australian Standard, i.e. AS 1572, followed by additional characters in accordance with Clauses 3.2, 3.3 and 3.4.

3.2 Alloy designation The designation shall comprise six characters commencing with the letter C, in accordance with the Unified Numbering System (UNS).

3.3 Temper designation The temper designation shall comprise either O, $^1/_4$H, $^1/_2$H or H.