AS/NZS 1567:1997

Australian/New Zealand Standard®

Copper and copper alloys—Wrought rods, bars and sections

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MT/2, Copper and Copper Alloys. It was approved on behalf of the Council of Standards Australia on 28 February 1997 and on behalf of the Council of Standards New Zealand on 24 March 1997. It was published on 5 July 1997.

The following interests are represented on Committee MT/2:

AUSTAP
Hunter Water Corporation
Metal Trades Industry Association of Australia
New Zealand Manufacturers Federation
Welding Technology Institute of Australia

Additional interests participating in preparation of Standard:

Australian Forging Group
Extruders and manufacturers

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Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand 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 95457.

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Copper and copper alloys—Wrought rods, bars and sections

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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 1567—1985.

The objective of this revision is to upgrade the requirements for wrought copper and copper alloy rods, bars, hollow sections and sections for machining and general purposes other than forging.

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 revision cognizance was taken of ISO 1637:1987, *Wrought copper and copper alloy rod and bar—Technical conditions of delivery*.

ISO 1637 was not considered to be an appropriate replacement for AS 1567 for the following reasons:

(a) It does not contain chemical compositions of alloys, but instead makes reference to eight other international Standards.

(b) It does not contain dimensional tolerance requirements, but instead makes reference to another eight international Standards.

(c) The preference of Australian/New Zealand industry is to contain the requirements for copper and copper alloy rods, bars and sections in the one Standard.

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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Australian/New Zealand Standard

Copper and copper alloys—Wrought rods, bars and sections

1 SCOPE This Standard specifies requirements for wrought copper and copper alloy rods, bars and sections, including hollow sections, having a diameter or width across flats of not less than 1.6 mm, for machining and general purposes other than forging.

NOTE: Advice and recommendations on information to be supplied at the time of inquiry and 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

1515.1 Part 1: Determination of lead in copper alloys (flame atomic absorption spectrometric method)

1515.2 Part 2: Determination of manganese content—Flame atomic absorption spectrometric method

1515.3 Part 3: Determination of silver content—Flame atomic absorption spectrometric method

1515.4 Part 4: Method for the electrolytic determination of copper in wrought and cast copper alloys

1515.5 Part 5: Determination of cadmium—Flame atomic absorption spectrometric method

1696 Copper

1696.1 Part 1: Determination of phosphorus—Spectrophotometric method

1817 Metallic materials—Vickers hardness test

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

2338 Preferred dimensions of wrought metal products

2345 Dezincification resistance of copper alloys

2505 Methods for bend and related testing of metals

2505.2 Part 2: Bars, rods and solid shapes

2614 Copper and copper alloys—Sampling for chemical analysis and electrical resistivity

2706 Numerical values—Rounding and interpretation of limiting values

ASTM

E 53 Test methods for chemical analysis of copper

BS

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

5714 Method of measurement of resistivity of metallic materials

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