

Australian Standard™

**Copper and copper alloys—
Compositions and designations of
refinery products, wrought products,
ingots and castings**

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 31 December 1999 and published on 23 February 2000.

The following interests are represented on Committee MT/2:

AUSTAP

Australian Forging Group

Australian Industry Group

Hunter Water Australia

New Zealand Manufacturers Federation

Water Corporation Western Australia

Welding Technology Institute of Australia

Additional interests participating in the preparation of this Standard:

Product manufacturers

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2738–2000

**Copper and copper alloys–Compositions and designations of refinery products,
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NOTES

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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 2738.1—1984, AS 2738.2—1984 and AS 2738.3—1984.

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.

This revision contains listings of designations and chemical composition limits for copper and copper alloy refinery, wrought, ingot and cast products in general use in Australia. In this edition the alloy designations have been changed from the three-digit numbering system to the Unified Numbering System (UNS) comprising five digits preceded by the letter C.

There are no equivalent International Standards (ISO) that list designations and chemical compositions of copper and copper alloy products.

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

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STANDARDS AUSTRALIA

Australian Standard

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard lists the designations and chemical composition limits for copper and copper alloy refinery, wrought, ingot and cast products in general use in Australia.

NOTES:

- 1 Related designations to compositions listed in this Standard are given in Appendix A.
- 2 Copper and copper alloy products used for the conveyance of drinking (potable) water and waste water may be subject to specific requirements as specified in relevant product Standards or specifications.

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

AS

- 1565 Copper and copper alloys—Ingots and castings
- 1566 Copper and copper alloys—Rolled flat products
- 1569 Copper and copper alloys—Seamless tubes for heat exchangers
- 1572 Copper and copper alloys—Seamless tubes for engineering purposes

AS/NZS

- 1279 Copper refinery shapes
- 1567 Copper and copper alloys—Wrought rods, bars and sections
- 1568 Copper and copper alloys—Forging stock and forgings
- 1571 Copper—Seamless tubes for airconditioning and refrigeration
- 1573 Copper and copper alloys—Wire for engineering purposes
- 1574 Copper and copper alloys—Wire for electrical purposes

BS EN

- 1982 Copper and copper alloys—Ingots and castings

1.3 DESIGNATION SYSTEMS

1.3.1 General For copper refinery alloys, the designations comprise the letters Cu followed by a hyphen and additional characters which indicate the refining process. For wrought and cast coppers and copper alloys, the designations are in accordance with the Unified Numbering System. Wrought coppers and alloys are grouped in accordance with Clauses 1.3.2.1 to 1.3.2.7 and cast copper alloys are grouped in accordance with Clauses 1.3.3.1 to 1.3.3.6.

As an exception, a UNS designation is not available for tin-bearing copper which is designated 149 (see Table 3.1).