AS 1515.2—1994
Reconfirmed 2016

Australian Standard®

Copper alloys

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

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Australasian Institute of Mining and Metallurgy

Australian Lead Development Association

Bureau of Steel Manufacturers, Australia

Copper Technical Data Centre, Australia

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RECONFIRMATION

OF
AS 1515.2—1994
Copper alloys
Part 2: Determination of manganese content—Flame atomic absorption spectrometric method

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First published as AS K209.2 — 1971.
Revised and redesignated AS 1515.2 — 1994.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140
ISBN 0 7262 8985 X

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PREFACE

This Standard for the determination of manganese in copper base alloys was prepared by the Standards Australia Committee CH/10 on the Analysis of Metals to supersede AS K209.2—1971, *Methods for the analysis of copper alloys*, Part 2: *Manganese in copper alloys (atomic absorption spectrometric method)*.

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STANDARDS AUSTRALIA

Australian Standard

Copper alloys

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

1 SCOPE This Standard specifies a flame atomic absorption spectrometric method for the analysis of manganese in copper base alloys. The method is applicable to copper alloys containing manganese in the range 0.002% to 2.1%. The method has been found satisfactory in the presence of the following elements up to the percentage concentrations indicated:

Aluminium	10%
Copper	80%
Iron	5%
Nickel	30%
Silicon	3%
Tin	10%
Zinc	40%

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

AS

2134 Recommended practice for chemical analysis by atomic absorption spectrometry

2134.1 Part 1: Flame atomic absorption spectrometry

2162 Code of practice for the use of volumetric glassware

2164 One-mark volumetric flasks

2166 One-mark pipettes

2167 Straight pipettes

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

2850 Chemical analysis—Interlaboratory test programs—For determining precision of analytical method(s)—Guide to the planning and conduct

BS

4237 Report on reproducibility of methods of chemical analysis used in the iron and steel industry

3 PRINCIPLE The sample is dissolved in nitric and hydrofluoric acids; after the addition of boric acid, the manganese content of the solution is determined by atomic absorption spectroscopy.

4 REAGENTS

4.1 General requirements All reagents shall be of the highest purity obtainable and distilled water shall be used throughout. Solutions shall be freshly prepared and, where necessary, filtered.

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