



Silver and silver bearing alloys

Part 1: Determination of silver content (0.1 % to 99.9 %)—Titrimetric (potentiometric) method



AS 5006.1:2019

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- Australian Chamber of Commerce and Industry
- Bureau of Steel Manufacturers of Australia
- Geoscience Australia
- International Copper Association Australia
- Jewellers Association of Australia
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Preface

This Standard was prepared by Standards Australia Committee CH-010, Analysis of Metals, to supersede AS 5006.1—2002, *Silver and silver bearing alloys, Part 1: Determination of silver content (0.1% to 99.9%)—Titrimetric (potentiometric) method*.

The objective of this Standard is to set out a titrimetric method for the determination of silver content in silver and silver bearing alloys in the range 0.1 % to 99.9 % silver with < 20 % gold and platinum group metals. If palladium or tungsten are present they need to be complexed. This method is not suitable for alloys containing mercury.

This Standard is Part 1 of a series comprising:

AS 5006.1, *Silver and silver bearing alloys, Part 1: Determination of silver content (0.1% to 99.9%)—Titrimetric (potentiometric) method* (this Standard)

AS 5006.2, *Silver and silver bearing alloys, Part 2: Determination of silver content (1% to 99%)—Gravimetric (fire assay) method*

The following laboratories participated in the inter-laboratory test program to provide the data given in [Table 1](#):

Australian Gold Refineries

Golden West

Misima Mines Pty Ltd

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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