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AS 1449 — 1980

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# Australian Standard 1449 — 1980

Metals  
File

## WROUGHT ALLOY STEELS — STAINLESS AND HEAT-RESISTING STEEL PLATE, SHEET AND STRIP

[Title allocated by Defence Cataloguing Authority:  
METAL PLATE, SHEET, STRIP (Stainless and  
Heat Resisting Steel in Coils and Cut Lengths)]



**STANDARDS ASSOCIATION OF AUSTRALIA**

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**THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS** and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Institute of Petroleum  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
Department of Defence  
Department of Productivity  
Institute of Steel Service Centres of Australia  
Metal Trades Industry Association of Australia  
Railways of Australia Committee  
Society of Automotive Engineers—Australasia

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This standard, prepared by Committee MT/1, Iron and Steel, was approved on behalf of the Council of the Standards Association of Australia on 5 June 1980, and was published on 1 November 1980.

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**AUSTRALIAN STANDARD**

**WROUGHT ALLOY STEELS—  
STAINLESS AND HEAT-RESISTING  
STEEL PLATE, SHEET AND STRIP**

**AS 1449—1980**

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## PREFACE

This standard was prepared under the direction of the Association's Committee on Iron and Steel, by its subcommittee on stainless and heat-resisting steel plate, sheet and strip, to supersede the 1978 edition which was a revision of AS G31—1971.

The need for a new edition arose for two reasons, viz—

- (a) problems in application of a 1 percent proof stress value from a testing point of view; and
- (b) the increased usage of Type 444 stainless steel.

The standard now reflects 0.2 percent proof stress values and the addition of Type 444.

The standard applies to stainless and heat-resisting steels for general engineering purposes, supplied in the form of hot-rolled plates or as cold-rolled sheet and strip in coils and cut lengths. In the preparation of the 1978 edition, cognizance was taken of ASTM A 240, Specification for Heat-resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Fusion-welded Unfired Pressure Vessels, but provision was made for steels other than the AISI-SAE types. The various grades are still identified basically in the manner used by the American Iron and Steel Institute and the Society of Automotive Engineers.

Appendix A sets out purchasing guidelines, including contractual requirements previously included in the body of the standard, and directs attention to matters requiring consideration at the time of enquiry and/or order. The intention is to prevent misinterpretation and to ensure a clear understanding of product requirements by both purchaser and supplier.

This standard may require reference to the following Australian standards:

- AS 1050 Methods for the Analysis of Iron and Steel
- AS 1213 Methods for the Sampling of Iron, Steel, Permanent Magnet Alloys and Ferro-alloys
- AS 1391 Methods for Tensile Testing of Metals
- AS 1815 Method for Rockwell Hardness Test  
Part 1—Testing of Metals
- AS 1816 Method for Brinell Hardness Test  
Part 1—Testing of Metals
- AS 2038 Method for Detecting the Susceptibility of Austenitic Stainless Steel to Intergranular Corrosion
- AS 2338 Preferred Dimensions of Wrought Metal Products
- AS ....\* Method for Bend Testing of Metals  
Part 1—Sheet, Strip and Plate
- AS K1 Methods for the Sampling and Analysis of Iron and Steel.

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\* In course of preparation.

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