

AS 2837—1986

Australian Standard<sup>®</sup>

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**WROUGHT ALLOY STEELS —  
STAINLESS STEEL BARS AND  
SEMI-FINISHED PRODUCTS**

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[Title allocated by Defence Cataloguing Authority:  
METAL BARS, SHAPES AND WIRES (Wrought  
Alloy Steels, Stainless) . . . . . NSC GP95]

This Australian standard was prepared by Committee MT/1, Iron and Steel. It was approved on behalf of the Council of the Standards Association of Australia on 11 February 1986 and published on 2 June 1986.

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The following interests are represented on Committee MT/1:

- Australasian Institute of Metals
- Australian Foundry Institute
- Bureau of Steel Manufacturers of Australia
- Confederation of Australian Industry
- Department of Defence
- Federal Chamber of Automotive Industries
- 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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## PREFACE

This edition of this standard was prepared under the direction of the Association's Committee on Iron and Steel by its subcommittee on stainless steels as the result of a request from industry to provide an Australian standard for stainless steels with specified mechanical properties. It applies to wrought stainless steels for general engineering purposes, supplied as hot-rolled and cold-finished (cold-sized or bright) bars for machining, bars, blooms, billets and slabs for forgings, and forgings.

Stainless steel grades included in this standard are those formerly included in Section 2 of AS 1444—1981, Wrought Alloy Steels — AISI-SAE Standard, Hardenability (H) and Stainless Series, and which were supplied to chemical composition only. In addition, provision has been made in this standard for a precipitation hardening grade of stainless steel. The new edition of AS 1444 — 1981 excludes the stainless series.

Attention is drawn to the designation system for stainless steels included as Clause 3. It should be noted that the three-digit designation is based on that used by the American Iron and Steel Institute and the Society of Automotive Engineers, but equivalent Australian grades vary slightly in chemistry to reflect Australian practice.

In preparing this standard, cognizance was taken of the following standards:

- |            |   |
|------------|---|
| ISO 683/13 | Heat-treated Steels, Alloy Steels and Free-cutting Steels — Part XIII: Wrought Stainless Steels   |
| BS 970     | Specification for Wrought Steels for Mechanical and Allied Engineering Purposes<br>Part 1 — General Inspection and Testing Procedures and Specific Requirements for Carbon, Carbon Manganese and Stainless Steels |
| ASTM A276  | Stainless and Heat-resisting Steel Bars and Shapes  |

The standard relates to both ISO 683/13 and BS 970: Part 1.

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