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**British Standard Specification for
Carbon, low alloy and stainless steel bars
and billets for bolting material to be used
in pressure retaining applications**

Barres et billettes en acier au carbone, en acier faiblement allié et en acier inoxydable utilisées pour fabriquer les éléments de boulonnerie des appareils sous pression — Spécifications

Stäbe und Knüppel aus unlegiertem, niedriglegiertem und rostfreiem Stahl für mechanische Verbindungsmittel im Druckbehälterbau

Foreword

This new edition of this British Standard has been prepared under the direction of the Iron and Steel Standards Policy Committee. It replaces BS 1506 : 1986 which is withdrawn. This edition introduces technical changes to bring the standard up-to-date but it does not reflect a full review of the standard, which will be undertaken in due course. Properties for the steels 304S11, 316S11 and 316S13 are added to table 2, and the details associated with test pieces for material not supplied in the finally heat treated condition are given in clause 7.

This edition reflects the wide range of steels and quality variants that are in demand for the manufacture of bolting for applications at various temperatures and for a range of pressure applications in particular.

Steel types now included take cognizance, as far as possible, of steels included in international standards.

BS 1506 is one of a series of publications for different steel products intended for pressure containing applications.

The other publications in the series are as follows:

- BS 1501 Steels for fired and unfired pressure vessels:
Plates
- BS 1502 Specification for steels for fired and unfired pressure vessels: sections and bars
- BS 1503 Specification for steel forgings (including semi-finished forged products) for pressure purposes
- BS 1504 Specification for steel castings for pressure purposes

A tabulation of nearest equivalent steels specified in this edition to the steels in the 1958 edition has been included as appendix A.

The appropriate British Standards for the design and construction of boilers, pressure vessels, piping systems, etc. should be consulted, together with BS 4882 for requirements relating to the application and permissible design stresses for products made to this standard.

Purchasers ordering to this standard are advised to specify in their purchasing contract that the supplier operates a quality system in compliance with BS 5750 : Part 2 to ensure to their satisfaction that products claimed to comply with this standard consistently achieve the required level of quality.

A number of commercially and contractually oriented clauses (e.g inspection, test facilities, delivery, defects revealed after delivery) have traditionally been included in British Standard product specifications such as in the 1958 edition of BS 1506. Current BSI drafting policy does not permit such clauses as requirements of a product specification and they have therefore been omitted from the requirements of this standard. However, examples of typical clauses are given in appendix B and the purchaser of bars or billets may wish to include such clauses in his order or contract.

Compliance with a British Standard does not of itself confer immunity from legal obligations.