

Specification for

Corrosion-resistant stainless steel fasteners

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The Mechanical Engineering Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following:

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- Association of Mining Electrical and Mechanical Engineers
- British Compressed Air Society
- British Electrical and Allied Manufacturers' Association (BEAMA)*
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- British Gear Manufacturers' Association
- British Internal Combustion Engine Manufacturers' Association*
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- British Steel Corporation
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- Cbmpe
- Chartered Institution of Building Services
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- Department of Industry (Mechanical Engineering)
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- Electricity Supply Industry in England and Wales
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- Federation of Manufacturers of Construction Equipment and Cranes
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- Institution of Gas Engineers
- Institution of Mechanical Engineers
- Institution of Plant Engineers
- Institution of Production Engineers*
- Lloyd's Register of Shipping
- London Transport Executive
- Machine Tool Industry Research Association
- Ministry of Defence*
- National Coal Board*
- Oil Companies Materials Association
- Process Plant Association
- Society of Motor Manufacturers and Traders Limited*
- Telecommunication Engineering and Manufacturing Association (TEMA)*

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- British Constructional Steelwork Association
- British Industrial Fasteners Federation
- British Railways Board
- British Steel Industry (Wire Section)
- Electronic Engineering Association
- Federation of British Hand Tool Manufacturers
- Gauge and Tool Makers' Association
- Washer Manufacturers' Association of Great Britain

Amendments issued since publication

Amd. No.	Date of issue	Comments

This British Standard, having been prepared under the direction of the Mechanical Engineering Standards Committee, was published under the authority of the Executive Board and comes into effect on 30 April 1981

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee. It is identical with ISO 3506-1979 “*Corrosion-resistant stainless steel fasteners — Specifications*”. The United Kingdom has taken an active part of the work of Technical Committee ISO/TC 2, Fasteners, of the International Organization for Standardization (ISO).

Terminology and conventions. The text of the international standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

The comma has been used throughout as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references

International standard	Corresponding British Standard
ISO 68-1973	BS 3643 ISO metric screw threads Part 1:1981 Principles and basic data (Technically equivalent)
ISO/R 80-1968	BS 891 Method for Rockwell hardness test Part 1:1962 Testing of metals (Technically equivalent)
ISO/R 81-1967	BS 427 Method for Vickers hardness test Part 1:1961 Testing of metals (Technically equivalent)
ISO 82-1974	BS 18 Methods for tensile testing of metals Part 2:1971 Steel (general) (Technically equivalent)
ISO 262-1973	BS 3643 ISO metric screw threads Part 1:1981 Principles and basic data (Technically equivalent)
ISO 898/I-1978	BS 6104 Mechanical properties of fasteners ¹⁾ Part 1:1981 Specification for bolts, screws and studs (Identical)
ISO 898/II-1969 (Revised as	BS 6104 Mechanical properties of fasteners ¹⁾ Part 2: Specification for nuts with specified proof load values
ISO 898/2-1980)	(Technically equivalent)
ISO 3651/2-1976	BS 5903:1980 Method for determination of resistance to intergranular corrosion of austenitic stainless steels: copper sulphate — sulphuric acid method (Moneypenny Strauss test) (Technically equivalent)

The Technical Committee has reviewed the provisions of ISO/R 79-1968 referred to in the text, and has decided that they are acceptable for use in conjunction with this standard.

The British Standard related to ISO/R 79 is BS 240-1:1962.

There is no corresponding British Standard for ISO 3651/1-1976. The committee responsible for it having been consulted, its technical requirements are hereby confirmed as being acceptable, and insofar as it is called up in the main body of this standard as a requirement to be complied with, it is to be regarded as mandatory for the purposes of this standard.

¹⁾ In course of preparation.

There are no corresponding British Standards for ISO 683/XIII-1974 and ISO 4954-1979. This standard includes the necessary information from these international standards as Annex A and Annex B respectively.

Additional information. The groove marking of nuts as shown in Figure 2 is to be considered non-preferred for the purposes of this British Standard.

Textual error. When the text of the international standard was adopted, the error, given below, was noticed. It has been reported to ISO in a proposal to amend the text of the international standard.

Annex A. In the column headed “Mo %”, “max.” should be deleted in two places. (The footnote to the table states that all values are maxima unless otherwise indicated.)

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 12, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

