



BSI Standards Publication

AEROSPACE SERIES

Bolts, shear, hexagonal heads, close tolerance shank, unified threads, alloy steel, cadmium plated (on head and thread only) – Specification

Classification $R_m = 127\,600 - 156\,600 \text{ lbf/in}^2$
(880 – 1 080 MPa) at ambient temperature | +190°C

Publishing and copyright information

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 29 February 2024. It was prepared by Technical Committee ACE/12, *Aerospace fasteners and fastening systems*. A list of organizations represented on this committee can be obtained on request to the committee manager.

Supersession

This British Standard supersedes [BS 3A 109:1985](#), which is withdrawn.

Information about this document

This revision of BS A 109 has been prepared to include a cadmium plating caution notice. It also incorporates historic amendment AMD5563 1988, which was previously a separate amendment slip.

An equivalent range of bolts with cadmium plated shanks suitable for insertion in aluminium alloy materials is specified in BS 4A 112. Nuts suitable for use with either range of shear bolts are specified in [BS 2A 110](#).

NOTE Fasteners manufactured to previous editions of this specification may continue to be supplied until stocks are exhausted.

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Hazard warnings

CAUTION. This British Standard features parts that have cadmium as a plating material which has been restricted and/or banned for use in many countries owing to environmental and health concerns; they should not be used in new product designs. Local officials should be consulted about any concerns on the use of cadmium plated parts.

Presentational conventions

The provisions of this document are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards:2022*, subclause **G.1.1**, which states, “Requirements should be expressed using wording such as: ‘When tested as described in Annex A, the product shall ...’”. This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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