

**BS A 275, A 276, A 277, A 278,
A 279, A 280:1981+A2:2011**



BSI Standards Publication

AEROSPACE SERIES

Specification for Hexagon self-locking nuts with non-metallic locking inserts

Metric series

Série aéronautique: Spécification des écrous hexagonaux auto-blocables avec grains de blocage non métalliques. Série métrique

Luft- und Raumfahrt-Reihe: Spezifikation für Sechskant-Sicherungsmuttern mit nichtmetallischen Sperreinsätzen. Metrische Reihe

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Foreword

Publishing information

This British Standard is published by BSI and came into effect on 27 February 1981. It was prepared by Technical Committee ACE/12, *Aerospace fasteners and fastening systems, details and parts*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

BS A 275, A 276, A 277, A 278, A 279, A 280:1981+A2:2011 supersedes BS A 275, A 276, A 277, A 278, A 279, A 280:1981+A1:1982, which is withdrawn.

Relationship with other publications

These British Standards provide a series of metric, hexagon nuts with non-metallic locking inserts. The dimensional data is based on that already agreed in ISO/TC 20/SC 4, Aircraft and space vehicles – Aerospace fastener systems. However, it should be noted that the across flats dimensions for diameters MJ3, MJ10, MJ12 and MJ14 are different from the dimensions agreed in ISO/TC 2, Fasteners, for non aerospace use.

Information about this document

The start and finish of text introduced or altered by Amendments No. 1 and No. 2 is indicated in the text by tags A1 A1 and A2 A2. Minor editorial changes are not tagged.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

1 Scope

These British Standards specify materials, dimensions, protective treatment, identification and marking, together with part numbers for hexagon (thick) self-locking nuts, with non-metallic inserts and having MJ screw threads.

They are primarily intended for use on non-structural aerospace applications and have operational temperature limitations of $-40\text{ }^{\circ}\text{C}$ to $+120\text{ }^{\circ}\text{C}$.

Coarse thread series for size codes 080, 100 and 120 have been included in Appendix A for those users wishing to specify them.

2 References

These standards make reference to the following standards publications and Ministry of Defence publications.

A2 BS EN 10083	Stainless steel Part 3 Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes A2
BS 1134	Method for the assessment of surface texture Part 1 Method and instrumentation
A2 BS EN 12164	Copper and copper alloys. Rod for free machining purposes
BS EN 2133	Cadmium plating of steels with specified tensile strength $\leq 1\,450\text{ MPa}$, copper, copper alloys and nickel alloys A2
BS 3643	ISO metric screw threads
A2 A 358	MJ Threads Part 1 General requirements Part 2 Limit dimensions for bolts and nuts A2
A1 S 105	Carbon steel (bar for the manufacture of forged bolts only)
S 147	0.5 per cent nickel-chromium-molybdenum steel bars for the manufacture of forged bolts and forged nuts A1
S 154	2½ per cent nickel-chromium-molybdenum steel billets, bars, forgings and parts (880-1080 MPa; limiting ruling section 150 mm)
A1 S 158	Specification for 1 per cent chromium-molybdenum steel bars for the manufacture of forged bolts and forged nuts A1
A2 A 293	Procurement of self-locking nuts with non-metallic locking elements. Metric Series Specification A2

Ministry of Defence publications

A2 DEF STAN 03-19 Electro-deposition of cadmium A2

DEF STAN 03-2 Cleaning and preparation of metallic surfaces

The latest issue of these publications shall be used.