



AEROSPACE STANDARD

AS4958™**REV. B**

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Superseding AS4958A

Performance, Nut, Self-Locking, Castellated, Prevailing Torque, UNJ 16
Pitch Thread Form

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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Documents

Document Sharing Hub

1. SCOPE

1.1 Type

This document covers all metal, castellated, self-locking nuts made from alloy steel of the types identified under the Unified Numbering System as UNS G41300 and UNS G43400.

1.2 Application

Where self-locking nuts with UNJ 16 pitch thread form are required for use with standard AS8879 external threads.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AMS2411 Plating, Silver for High Temperature Applications

AMS6370 Steel, Bars, Forgings, and Rings, 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130)

AMS6371	Steel, Mechanical Tubing, 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130)
AMS6414	Steel, Bars, Forgings, and Tubing, 0.80Cr - 1.8Ni - 0.25Mo (0.38 - 0.43C) (SAE 4340) Vacuum Consumable Electrode Remelted
AMS 6415	Steel, Bars, Forgings, and Tubing, 0.80Cr - 1.8Ni - 0.25Mo (0.38 - 0.43C) (SAE 4340)
AMS-H-6875	Heat Treatment of Steel Raw Materials
AS478	Identification Marking Methods
AS1310	Fastener Torque for Threaded Applications, Definitions of
AS3071	Acceptance Criteria - Magnetic Particle, Fluorescent Penetrant, and Contrast Dye Penetrant Inspection
AS8879	Screw Threads - UNJ Profile, Inch, Controlled Radius Root with Increased Minor Diameter

2.1.2 U.S. Government Publications

Available from DLA Document Services, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6396, <http://quicksearch.dla.mil/>.

MIL-PRF-7808 Lubricating Oil, Aircraft Turbine Engine, Synthetic Base

MIL-PRF-23699 Lubricating Oil, Aircraft Turbine Engine, Synthetic Base, Nato Code Number 0-156

2.1.3 ASME Publications

Available from ASME, 22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007-2900, Tel: 800-843-2763 (U.S./Canada), 001-800-843-2763 (Mexico), 973-882-1170 (outside North America), www.asme.org.

ASME B46.1 Surface Texture (Surface Roughness, Waviness, and Lay)

2.1.4 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM E18 Standard Test Methods for Rockwell Hardness of Metallic Materials

ASTM D3951 Standard Practice for Commercial Packaging

2.2 Definitions

PRODUCTION INSPECTION LOT: Shall be all finished parts of the same part number, made from a single heat of alloy, heat treated at the same time to the same specified condition, produced as one continuous run, and submitted for suppliers inspection at the same time.

ROOM TEMPERATURE: Ambient temperature (68 °F approximately).

Refer to AS1310 for definitions related to fastener torque.