

AEROSPACE MATERIAL SPECIFICATION



AMS 4318A

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Cancelled FEB 2005

Superseding AMS 4318

Aluminum Alloy, Rolled or Cold Finished Bars and Rods
12.2Si - 1.0Mg - 0.90Cu - 0.90Ni (4032-T86)
Solution Heat Treated, Cold Worked, and Artificially Aged

UNS A94032

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1. SCOPE:

1.1 Form:

This specification covers an aluminum alloy in the form of bars and rods 0.375 to 0.874 inch (9.52 to 22.20 mm) in nominal diameter or least distance between parallel sides.

1.2 Application:

These products have been used typically for parts requiring wear resistance and moderate strength where limited formability is acceptable, but usage is not limited to such applications.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification 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.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 2201	Tolerances, Aluminum and Aluminum Alloy Bar, Rod, Wire, and Forging Stock, Rolled or Cold Finished
MAM 2201	Tolerances, Metric, Aluminum and Aluminum Alloy Bar, Rod, Wire, and Forging Stock, Rolled, Drawn, or Cold Finished
AMS 2355	Quality Assurance Sampling and Testing, Aluminum Alloys and Magnesium Alloys, Wrought Products, Except Forging Stock, and Rolled, Forged, or Flash Welded Rings
MAM 2355	Quality Assurance Sampling and Testing, Aluminum Alloys and Magnesium Alloys, Wrought Products, Except Forging Stock, and Rolled, Forged, or Flash Welded Rings, Metric (SI) Units
AMS 2811	Identification, Aluminum and Magnesium Alloy Wrought Products

2.2 ASTM Publications:

Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM B 660 Packaging/Packing of Aluminum and Magnesium Products

2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-H-6088 Heat Treatment of Aluminum Alloys