



AEROSPACE MATERIAL SPECIFICATION	AMS6317™	REV. L
	Issued	1939-12
	Revised	2022-08
Superseding AMS6317K		
Steel Bars and Forgings 1.8Ni - 0.25Mo (0.38 - 0.43C) (4640) Heat Treated, 125 ksi (862 MPa) Tensile Strength (Composition similar to UNS K22-40)		

RATIONALE

AMS6317L is the result of a Five-Year Review and update of the specification. The revision, from this unauthorized exceptions, including a clarification of the size limits (1.1, Table 2, 3.5, 3.8, 4.4.2, 5.2, 8.7, 8.9), updated composition testing (3.1), incorporates updates to grain refinement requirements (3.1.1, 3.4.2, 4.2.1, 4.2.2, 4.4.1, 8.1), updates decarburization testing (3.4.3.3), adds updates based on changes in AMS2301 (4.2.1, 4.4.1, 4.4.4), provides guidance on use of AS1182 (8.8), and allows for prior revisions (8.6).

1. SCOPE

1.1 Form

This specification covers an aircraft-quality, low-alloy steel in the form of heat treated bars and forgings 1.00 inches (25.4 mm) and under in nominal cross section or diameter and for hexagonal shapes, least distance between parallel sides.

1.2 Application

These products have been used typically for parts with sections 1.0 inch (25 mm) and under in nominal thickness requiring a minimum tensile strength of 125 ksi (862 MPa), but usage is not limited to such applications.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS2251 Tolerances, Low-Alloy Steel Bars

AMS2259 Chemical Check Analysis Limits, Wrought Low-Alloy and Carbon Steels

AMS2301 Steel Cleanliness, Aircraft Quality, Magnetic Particle Inspection Procedure

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