



AEROSPACE MATERIAL SPECIFICATION	AMS6371™	REV. M
	Issued 1942-12 Reaffirmed 2008-04 Revised 2022-10	
Superseding AMS6371L		
Steel, Mechanical Tubing 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130) (Composition similar to UNS G-1300)		

RATIONALE

AMS6371M is the result of a Five-Year Review and update of the specification. The revision updates composition testing and reporting (3.1, 3.1.2), clarifies exceptions requirements (3.6, 8.6), adds exception for Jominy testing (3.3.2), revises the decarburization requirements (3.3.3.3.1, 3.3.3.3.2), incorporates the requirements of AMS2301 (4.2.1, 4.4.3), adds finish guidance (8.4), and allows prior revisions (8.5).

1. SCOPE

1.1 Form

This specification covers an aircraft-quality, low-alloy steel in the form of mechanical tubing.

1.2 Application

This tubing has been used typically for parts, 0.375 inch (9.52 mm) and under in nominal wall thickness at time of heat treatment requiring a through-hardening steel capable of developing hardness as high as 40 HRC when properly hardened and tempered and for parts of greater wall thickness but requiring proportionately lower hardness, 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 supplied 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.

AMS2253 Tolerances, Carbon and Alloy Steel Tubing

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

AMS2301 Steel Cleanliness, Aircraft Quality Magnetic Particle Inspection Procedure

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