

AEROSPACE MATERIAL SPECIFICATION

SAE AMS-T-6736B

Issued	1990-12
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Cancelled	2008-01

Superseding AMS-T-6736A

Tubing, Chrome-Molybdenum (4130 or 8630) Steel, Seamless and Welded

RATIONALE

AMS-T-6736A has been designated cancelled as similar requirements are provided by AMS 6360, AMS 6361, and AMS 6362.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE International, as of January 2008. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications indicating that it has been "CANCELLED". Cancelled specifications are available from SAE.

Similar, but not necessarily identical products are covered in the following specification. However, this listing is provided for information only and does not constitute authority to substitute these specifications for the "CANCELLED" specification.

AMS 6360	Steel Tubing, Seamless, 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130) Normalized or Stress Relieved
AMS 6361	Steel Tubing, Seamless, 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130) 125 ksi (862 MPa) Tensile Strength
AMS 6362	Steel Tubing, Seamless, 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130) 150 ksi (1034 MPa) Tensile Strength

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NOTICE

This document has been taken directly from U.S. Military Specification MIL-T-6736B, Notice 1 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-T-6736B, Notice 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

1. SCOPE:

1.1 Scope:

This specification covers chromium-molybdenum (4130) seamless and welded steel tubing of aircraft quality.

1.2 Classification:

The tubing shall be of the following grades, types, and physical conditions, as specified (see 6.2):

Grades:

All tubing - Regular grade, except that type I, condition (N) tubing is also available in a special (S) grade having reduced decarburization limits.

Types:

Type I - Round
Type II - Rectangular or square
Type III - Streamline
Type IV - Oval

1.2 (Continued):

Physical conditions:

(A) - Annealed

(N) - Normalized or stress relieved

(HT-125) - Heat treated to a minimum tensile strength of 125,000 psi

(HT-150) - Heat treated to a minimum tensile strength of 150,000 psi

(HT-180) - Heat treated to a minimum tensile strength of 180,000 psi

2. APPLICABLE DOCUMENTS:

The following publications, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

2.1 SAE Publications:

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

AMS 2301 Aircraft Quality Steel Cleanliness, Magnetic Particle Inspection Procedure

AMS 2640 Magnetic Particle Inspection

2.2 U.S. Government Publications:

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

MIL-I-6868	Inspection Process, Magnetic Particle
MIL-C-16173	Corrosion Preventive Compound, Solvent Cutback, Cold Application
FED-STD-151	Metals; Test Methods
FED-STD-183	Continuous Identification Marking of Iron and Steel Products
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-163	Steel Mill Products, Preparation for Shipment and Storage
MS33529	Tolerances - Seamless Steel Tubing, Aircraft Airframe, Round
MS33530	Tolerances - Welded Carbon and Alloy Steel Tubing
MS33532	Square and Rectangular Tubing - Carbon Steel and Alloy Steel, 0.35 Carbon, Maximum
MS33534	Standard Dimensions for Streamline and Oval Tubular Shapes
AND10102	Tubing - Standard Dimensions for Round Seamless Alloy Steel