



AEROSPACE MATERIAL SPECIFICATION	AMS5896™	REV. C
	Issued 1994-06 Reaffirmed 2006-04 Revised 2022-09	
Superseding AMS5896B		
Steel, Corrosion- and Heat-Resistant, Seamless or Welded Hydraulic Tubing 18.5Cr - 10.5Ni - 0.55Ti (321) Solution Heat Treated and Cold Drawn, 1/8 Hard Temper (Composition similar to UNS S32100)		

RATIONALE

AMS5896C is the result of a Five-Year Review and update of the specification. The revision highlights size limits (1.1), prohibits unauthorized exceptions (3.7, 4.4.1, 5.2.1, 8.4), updates composition testing (3.1, 3.1.1), updates condition adding AMS2700 (3.2), updates tensile testing (3.4.1.2), updates the specification for sensitization (3.4.3), updates hydrostatic testing (3.4.5), updates inspection (3.5.2, 3.5.3, 3.5.4, 4.3.4, 4.3.5), requires country of origin (4.4), clarifies tubing type (3.6, 4.2), and allows prior revisions (8.3).

1. SCOPE

1.1 Form

This specification covers a corrosion- and heat-resistant steel in the form of two types of thin-wall, close-tolerance hydraulic tubing 0.125 to 2.00 inches (3.18 to 50.8 mm), inclusive, in nominal OD.

1.2 Application

This tubing has been used typically in high-pressure hydraulic or pneumatic systems assembled with brazed joints, but usage is not limited to such applications.

1.3 Classification

Tubing covered by this specification is classified as follows:

- Type 1: Seamless and drawn
- Type 2: Welded and drawn

1.3.1 Unless a specific type is ordered, either type may be supplied.

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