



<b>AEROSPACE MATERIAL SPECIFICATION</b>	<b>AMS4981™</b>	<b>REV. J</b>
	Issued	1972-11
	Revised	2022-08
Superseding AMS4981H		
Titanium Alloy Bars, Wire, and Forgings 6.0Al - 2.0Sn - 4.0Zr - 6.0Mo Solution and Precipitation Heat Treated (Composition similar to UNS R5.26u)		

## RATIONALE

AMS4981J results from a Five-Year Review and update of the specification. Changes have been made to prohibit unauthorized exceptions (3.5.1.1.5, 3.9, 4.4.3, 5.1.1, 8.6), update applicable documents (Section 8.3), and ordering information (8.8), and allow use of immediate prior specification revision (8.7).

### 1. SCOPE

#### 1.1 Form

This specification covers a titanium alloy in the form of bars, wire, and forgings up through 4.000 inches (101.60 mm), inclusive, in diameter or least distance between parallel sides and forging stock of any size (see 8.8).

#### 1.2 Application

This alloy has been used typically for parts requiring high strength up to 1000 °F (538 °C), but usage is not limited to such applications.

1.2.1 Certain processing procedures and service conditions may cause these products to become subject to stress-corrosion cracking. ARP982 recommends practices to minimize such conditions.

### 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 warrant 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](http://www.sae.org).

AMS2241 Tolerances, Corrosion and Heat-Resistant Steel, Iron Alloy, Titanium, and Titanium Alloy Bars and Wire

AMS2249 Chemical Check Analysis Limits Titanium and Titanium Alloys

AMS2338 Sampling and Testing of Wrought Titanium Raw Material Except Forgings and Forging Stock

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