



AEROSPACE MATERIAL SPECIFICATION	AMS4935™	REV. M
	Issued	1959-06
	Revised	2022-08
Superseding AMS4935L		
Titanium Alloy Extrusions and Flash Welded Rings 6Al - 4V Annealed Beta Processed (Composition similar to UNS R50400)		

RATIONALE

AMS4935M results from a Five-Year Review and update of this specification. Changes have been made to update general agreement language to prohibit unauthorized exceptions (3.5.1.1.2, 3.8, 8.6), paragraph numbering (4.2.2.1), applicable documents (Section 2, 8.3), compressive properties (3.5.1.2), sampling and testing (4.3.2), and allow use of the immediate prior revision of this specification (8.5).

1. SCOPE

1.1 Form

This specification covers a titanium alloy in the form of extruded bars and shapes, flash welded rings 3.000 inches (76.20 mm) and under in nominal diameter or least distance between parallel sides, and stock for flash welded rings.

1.2 Application

These products have been used typically for parts that do not require heat treatment but require high mechanical properties in the annealed condition and for which processing above the beta transus is permissible, but usage is not limited to such applications. This alloy exhibits high strength-to-weight ratio up to 750 °F (399 °C).

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.

AMS2245 Tolerances Titanium and Titanium Alloy Extruded Bars, Rods, and Shapes

AMS2249 Chemical Check Analysis Limits Titanium and Titanium Alloys

AMS2750 Pyrometry

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