

AEROSPACE MATERIAL SPECIFICATION

Issued JAN 1988
Cancelled SEP 2006

Superseded by AMS 7848

Tantalum Alloy Bars and Rods
90Ta - 10W
Annealed

UNS R05255

RATIONALE

AMS 7846A places this specification in cancelled status.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of September, 2006, and has been superseded by AMS 7848. The requirements of the latest issue of AMS 7848 shall be fulfilled whenever reference is made to the cancelled AMS 7846. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, noting that it has been superseded by AMS 7848.

Cancelled specifications are available from SAE.

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SAE WEB ADDRESS:

1. SCOPE:

- 1.1 Form:** This specification covers a tantalum alloy in the form of bars and rods.
- 1.2 Application:** Primarily for parts requiring exposure to ultra-high temperatures. Applications on oxidizing atmosphere necessitate a protective coating.

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

2.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096

2.1.1 Aerospace Material Specifications:

AMS 2261 - Tolerances, Nickel, Nickel Alloy, and Cobalt Alloy Bars and Forging Stock
MAM 2261 - Tolerances, Metric, Nickel, Nickel Alloy, and Cobalt Alloy Bars and Forging Stock
AMS 2350 - Standards and Test Methods

2.2 ASTM Publications: Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM E8 - Tension Testing of Metallic Materials
ASTM E92 - Vickers Hardness of Metallic Materials

2.3 U.S. Government Publications: Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

2.3.1 Military Standards:

MIL-STD-163 - Steel Mill Products, Preparation for Shipment and Storage