

AEROSPACE MATERIAL SPECIFICATION



MAM 2410A

Issued JAN 1994
Cancelled DEC 2000

Superseding MAM 2410

Plating, Silver
Nickel Strike, High Bake

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of December 2000, and has been superseded by AMS 2410. The requirements of the latest issue of AMS 2410 shall be fulfilled whenever reference is made to the cancelled MAM 2410. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications noting that it is superseded by AMS 2410.

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Documents

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1. SCOPE:**1.1 Purpose:**

This specification covers the engineering requirements for electrodeposition of silver on other metals, usually with a nickel strike between the basis metal and the silver, and the properties of the deposit.

1.1.1 AMS 2410 is the inch/pound version of this MAM.**1.2 Application:**

This process has been used typically to provide a bearing surface and to prevent galling or seizing of surfaces of parts made of corrosion-resistant steels and alloys and of parts made of other metals not deleteriously affected by high-temperature baking, but usage is not limited to such applications.

1.3 Safety-Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The applicable issue of referenced documents shall be the issue in effect on the date of the purchase order.

2.1 ASTM Publications:

Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM B 487 Measurement of Metal and Oxide Coating Thicknesses by Microscopical Examination of a Cross Section

ASTM B 499 Measurement of Coating Thicknesses by The Magnetic Method: Nonmagnetic Coatings on Magnetic Basis Metals

ASTM B 504 Measurement of Thickness of Metallic Coatings by the Coulometric Method

ASTM E 376 Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Test Methods

2.2 U.S. Government Publications:

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

MIL-STD-2073-1 DOD Materiel, Procedures for Development and Application of Packaging Requirements

2.3 ANSI Publications:

Available from American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

ANSI B46.1 Surface Texture

3. TECHNICAL REQUIREMENTS:

3.1 Preparation:

3.1.1 All fabrication-type operations, such as forming, welding, machining, and heat treatment, shall be completed before parts are plated.

3.1.2 Prior to cleaning, texture of surfaces to be plated on parts, other than nuts, shall be not rougher than 2 μm , determined in accordance with ANSI B46.1.

3.1.3 Parts shall have clean surfaces, free of waterbreak, prior to immersion in the plating solution.

3.1.4 Electrical contacts between the parts and power source shall be made to ensure that neither chemical or immersion deposition nor electrical arcing or overheating will occur. If parts are to be plated all over, contact points shall, except in the case of barrel plating, be located where specified or where agreed upon by purchaser and vendor. If parts are not required to be plated all over, contact points shall be located in areas on which plating is not required or is optional. These requirements do not apply to the bulk plating process.