

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 2412C

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

Issued 8-1-45
Revised 6-30-60

SILVER PLATING Copper Strike - Low Bake

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily to provide a bearing surface and/or to prevent galling or seizing of metal surfaces of parts made of materials where a high baking temperature may be detrimental to the properties of the basis material.
3. PREPARATION:
 - 3.1 Unless otherwise specified, roughness of surfaces to be plated on parts other than nuts shall not exceed 80 microinches prior to cleaning.
 - 3.2 Parts shall be chemically clean when immersed in plating solutions.
 - 3.3 Electrical contacts shall be made in such manner as will ensure that no chemical or immersion deposition will occur.
4. PROCEDURE:
 - 4.1 Unless otherwise specified, plating of parts shall be conducted in the following sequence, except that the copper strike may be omitted in plating copper base alloys; process shall be approved by purchaser.
 1. Copper Strike
 2. Silver Strike
 3. Silver Plate
 - 4.2 Unless otherwise specified, all parts except nuts shall be heated to 300 - 500 F after plating and held at heat for not less than 2 hr, unless such heating would lower hardness to below drawing limits or otherwise deleteriously affect the parts, in which case heating shall be at highest practicable temperature which will maintain specified properties. Parts shall be so heated as to prevent harmful oxidation.
5. THICKNESS:
 - 5.1 Where "silver flash" is specified, plate thickness shall be approximately 0.0001 inch.
 - 5.2 Thickness of plate other than flash shall be as specified on drawing. If machining of plated metal is required, plate thickness as deposited shall be sufficient to allow machining of all areas of plated surfaces to the dimensions specified on the drawing.
6. QUALITY:

cluding standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no intent to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against infringement of patents.

Section 8.3 of the SAE Technical Board rules provides that: "All technical reports are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no intent to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against infringement of patents."