

AEROSPACE MATERIAL SPECIFICATIONS

AMS 2473B

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

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CHEMICAL TREATMENT FOR ALUMINUM BASE ALLOYS General Purpose Coating

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION:
 - 2.1 To increase the corrosion resistance of aluminum or aluminum base alloys and to improve adhesion of organic protective coatings.
 - 2.2 To improve corrosion resistance and coating adhesion properties of abraded or discontinuous anodized surfaces on aluminum or aluminum alloy parts.
3. PREPARATION: Before parts are coated, they shall have chemically clean surfaces prepared with minimum erosion, pitting, or unintended abrasion. If alkaline cleaners are employed, very thorough water rinsing, preferably by spray, shall be employed after cleaning.
4. PROCEDURE: Consists of immersion of parts in a solution which will form a chemical coating of oxide, phosphate, silicate, or chromate for such time and at such temperatures as will produce coatings meeting the requirements of Section 5, followed by rinsing, sealing if required, and drying. If parts are not to be coated all over, the solution may be applied by brushing, swabbing, or spraying the surfaces to be coated.
 - 4.1 Only processes which permit adequate solution control by chemical analysis shall be used.
 - 4.1.1 It shall be the responsibility of the vendor of proprietary processing chemicals to supply the purchaser with methods of analysis and directions for maintenance of the solutions.
5. TECHNICAL REQUIREMENTS: When ASTM methods are specified for determining conformance to the following requirements, tests shall be conducted in accordance with the issue of the ASTM method listed in the latest issue of AMS 2350 except that salt spray test (ASTM B117) may be conducted using either 20% or 5% salt spray solution.
 - 5.1 The coating shall have uniform appearance characteristic of the process used. Color of chromate coatings may range from iridescent yellow to dark olive green.

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