



AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

485 Lexington Ave., New York, N. Y. 10017

AMS 2450C

Superseding AMS 2450B

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SPRAYED METAL FINISH Aluminum

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily for air-cooled cylinder assemblies, but may be used on other parts where applicable.
3. PREPARATION:
 - 3.1 Completely remove all oil and grease by the vapor degreasing method, or by other similar methods of equal cleaning power.
 - 3.2 Blast with No. 18 (0.039 in.), No. 20 (0.033 in.), or No. 25 (0.028 in.) refractory grit, or with No. 30 (0.023 in.), No. 35 (0.020 in.), or No. 40 (0.017 in.) hard, angular silica or flint sand, which shall be free from oil, grease, dust, moisture, and other foreign substances. The above designations are standard sieve numbers and sieve openings (in inches) in accordance with ASTM E11.
 - 3.3 No. 35 (0.020 in.) steel grit may be used for blasting steel but shall not be used on aluminum alloys.
 - 3.4 If compressed air is used as the blasting force, it shall be essentially free from oil and water.
 - 3.5 Extreme care shall be exercised that products of corrosion and foreign materials are thoroughly removed by the blasting and the surfaces roughened to attain a good bond for the sprayed aluminum. Remove all dust and particles after blasting by blowing with high pressure, clean, dry air.
 - 3.6 Blasted surfaces shall be kept absolutely clean and handled only with protected hands.
4. PROCEDURE:
 - 4.1 Sprayed metal coating shall be applied as soon as possible after the surfaces have been blasted.
 - 4.2 The aluminum shall be applied with an approved metal spray gun in such a manner as to insure complete coverage of the entire surface without depositing an unnecessarily heavy coating.
 - 4.3 All surfaces exposed after the parts are assembled shall be sprayed, unless otherwise noted, with metallic aluminum conforming to the latest issue of AMS 4180.
5. QUALITY: Sprayed coating shall be of fine texture, close-grained, as dense as possible, and free from unatomized particles of metal.
6. CORROSION RESISTANCE:
 - 6.1 The effectiveness of the sprayed metal coating shall be determined by subjecting representative parts to the salt spray corrosion test conducted in accordance with the issue of ASTM B117 specified in the latest issue of AMS 2350.

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