

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 4000B

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ALUMINUM SHEET Annealed

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 metallic gaskets and washers.

3. COMPOSITION:

Aluminum

99.7 min

4. CONDITION: Annealed and, unless otherwise specified, mill finish.

5. TECHNICAL REQUIREMENTS:

5.1 Tensile Properties: Tensile strength shall be not higher than 12,000 psi.

5.2 Bending: Sheet shall withstand, without cracking, bending at room temperature flat on itself with axes of bends both perpendicular and parallel to the direction of rolling.

6. QUALITY: Material shall be uniform in quality and condition, clean, sound, smooth, and free from foreign materials and from internal and external defects detrimental to fabrication or to performance of parts.

7. TOLERANCES: Unless otherwise specified, tolerances shall conform to the latest issue of AMS 2202 as applicable. Thickness tolerances shall conform to Table I.

8. REPORTS:

8.1 Unless otherwise specified, the vendor of sheet shall furnish with each shipment three copies of a report stating that the chemical composition and tensile properties of the sheet conform to the requirements specified. This report shall include the purchase order number, material specification number, thickness, size, and quantity.

8.2 Unless otherwise specified, the vendor of finished or semi-finished parts shall furnish with each shipment three copies of a report showing the purchase order number, material specification number, contractor or other direct supplier of sheet, part number, and quantity. When sheet for making parts is produced or purchased by the parts vendor, that vendor shall inspect each lot of sheet to determine conformance to the requirements of this specification, and shall include in the report a statement that the sheet conforms, or shall include copies of laboratory reports showing the results of tests to determine conformance.

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