

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS4001A

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ALUMINUM SHEET (2S-0)

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.

2. **COMPOSITION:**

Aluminum	99.0 min
Iron plus Silicon	1.0 max
Copper	0.2 max
Manganese	0.10 max
Zinc	0.10 max
Other Impurities, each	0.05 max
Other Impurities, total	0.15 max

3. **CONDITION:** (a) Annealed and unless otherwise specified, mill finish.

(b) Physical properties shall conform to the values in the following table. Test Specimens shall conform to ASTM E-8, except from sheet less than 3/4 inch in width. Elongation requirements apply only to sheet 3/4 inch and over in width.

Thickness Inch	Tensile Strength psi max	Elongation % in 2 in. min
0.006 - 0.019, incl.	15,500	15
0.020 - 0.031, incl.	15,500	20
0.032 - 0.050, incl.	15,500	25
0.051 - 0.249, incl.	15,500	30

(c) Sheet shall withstand, without cracking, bending at room temperature flat on itself with axis of bend parallel to direction of rolling.

4. **QUALITY:** (a) Sheet shall be uniform in quality and condition, clean, sound, and free from foreign material and from internal and external defects detrimental to fabrication or to the appearance and performance of parts. Sheet revealing defects during fabrication shall be subject to rejection.

(b) Sheet and parts made therefrom shall be subjected to inspection by any method which will reveal defects.

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

6. **REPORTS:** (a) Unless otherwise specified, the vendor of sheet shall furnish three copies of a notarized report stating that the sheet meets all the requirements of this specification. This report shall include the purchase order number, material specification number, size and quantity.

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