

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 4102

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Revised

ALUMINUM BARS (ROLLED) 99A1 (2S-F)

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

2. FORM: Rods, bars, or as ordered.

3. APPLICATION: Primarily parts where strength is unimportant and forming or welding may be involved in fabrication.

4. COMPOSITION:

Aluminum	99.00 min
Iron + Silicon	1.00 max
Copper	0.20 max
Manganese	0.10 max
Zinc	0.10 max
Other impurities, each	0.05 max
Other impurities, total	0.15 max

5. CONDITION: As fabricated, unless otherwise specified.

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 for rods and bars shall conform to the latest issue of AMS 2201 as applicable. Diameter, thickness and width tolerances shall be as specified below:

7.1 Diameter (Rounds 1.5 in. and less): Table V.

7.2 Diameter (Rounds over 1.5 in.): Table I.

7.3 Thickness (Hexagons 2 in. and less): Table V.

7.4 Thickness (Squares 1.5 in. and less): Table V.

7.5 Thickness (Squares over 1.5 in.): Table II.

7.6 Thickness and Width (Rectangles not over 1.5 in. thick or 4 in. wide): Table V.

7.7 Thickness and Width (Rectangles over 1.5 in. thick or 4 in. wide): Table II.

8. REPORTS:

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