

# AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 4114B

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

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## ALUMINUM ALLOY BARS, ROLLED 2.5Mg - 0.25Cr (5052-F)

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

∅ 2. FORM: Bars, rods, and wire.

3. APPLICATION: Primarily for parts requiring somewhat greater strength than AMS 4102 and where forming or welding may be required in fabrication.

4. COMPOSITION:

Magnesium	2.2 - 2.8
Chromium	0.15 - 0.35
Iron + Silicon	0.45 max
Manganese	0.10 max
Copper	0.10 max
Zinc	0.10 max
Other Impurities, each	0.05 max
Other Impurities, total	0.15 max
Aluminum	remainder

∅ 5. CONDITION: Rolled or cold finished, 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 imperfections detrimental to fabrication or to performance of parts.

7. TOLERANCES: Unless otherwise specified, tolerances shall conform to the latest issue of AMS 2201 as applicable. Diameter, thickness, and width tolerances shall be as specified below:

∅ 7.1 Diameter: Table I.

∅ 7.2 Thickness and Width, Squares, Hexagons, and Rectangles: Table II (rolled) or Table V (cold finished).

8. REPORTS:

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

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