



AEROSPACE MATERIAL SPECIFICATIONS

AMS 4114D

Superseding AMS 4114C

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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

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ALUMINUM ALLOY BARS AND RODS, ROLLED OR COLD FINISHED 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. APPLICATION: Primarily for parts requiring somewhat greater strength than AMS 4102 and where forming or welding may be required in fabrication.

3. COMPOSITION:

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

4. CONDITION: Rolled or cold finished, as ordered, in the as-fabricated condition.

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

6. TOLERANCES: Unless otherwise specified, tolerances shall conform to all applicable requirements of the latest issue of AMS 2201.

7. REPORTS:

7.1 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.

7.2 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 material, part number, and quantity. When material for making parts is produced or purchased by the parts vendor, that vendor shall inspect each lot of material to determine conformance to the requirements of this specification, and shall include in the report a statement that the material conforms, or shall include copies of laboratory reports showing the results of tests to determine conformance.

8. IDENTIFICATION: Unless otherwise specified, the product shall be identified as follows:

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