

Superseded



400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096

AEROSPACE MATERIAL SPECIFICATION

AMS 4097

Issued 3-15-66
Revised 7-1-81

ALUMINUM ALLOY SHEET AND PLATE 4.5Cu - 1.5Mg - 0.60Mn (2024-T36) Width 48 In. and Under

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 3-25-74. It is recommended that this specification not be specified for new designs.

This cover sheet should be attached to the original issue of the subject specification.

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of 7-1-81. By this action, subject specification number and title will be deleted from the active specification index of Aerospace Material Specifications.

SAE Technical Board rules provide that: "All technical reports, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade is their use by governmental agencies is entirely voluntary. There is no agreement to adhere to any SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against infringement of patents."



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CANCELLED



AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc

485 Lexington Ave, New York, N Y 10017

AMS 4097

Issued 3-15-66

Revised

ALUMINUM ALLOY SHEET AND PLATE

4.5Cu - 1.5Mg - 0.60Mn (2024-T36)

Width 48 In. and Under

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. **FORM:** Sheet and plate, produced in widths 48 in. and under.
3. **APPLICATION:** Primarily for structural parts of good strength. This material, when re-heat treated by the user, may not have the tensile properties shown. Certain design and processing procedures may cause this material to be susceptible to stress corrosion cracking; ARP 823 recommend practices to minimize such conditions.

4. COMPOSITION:

	min	max
Copper	3.8	- 4.9
Magnesium	1.2	- 1.8
Manganese	0.30	- 0.9
Iron	--	0.50
Silicon	--	0.50
Zinc	--	0.25
Chromium	--	0.10
Other Impurities, each	--	0.05
Other Impurities, total	--	0.15
Aluminum	remainder	

5. **CONDITION:** Solution heat treated and cold reduced approximately 6% in thickness.
6. **TECHNICAL REQUIREMENTS:** The product shall conform to the following requirements; tensile properties shall be determined in accordance with the latest issue of AMS 2355.

6.1 Tensile Properties:

Nominal Thickness Inch	Tensile Strength psi, min	Yield Strength at 0.2% Offset or at Extension Indicated (E = 10,500,000)		Elongation % in 2 in. or 4D, min
		psi, min	Extension Under Load in. in 2 in.	
0.020 to 0.062, incl	69,000	52,000	0.0139	8
Over 0.062 to 0.249, incl	69,000	52,000	0.0139	9
Over 0.249 to 0.500, incl	69,000	52,000	0.0139	10

- 6.1.1 When a dispute occurs between purchaser and vendor over the yield strength values, yield strength determined by the offset method shall apply.

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