

SUPERSEDED



400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

**AEROSPACE
MATERIAL
SPECIFICATION**

AMS 4073

Issued 3-16-66
Revised 7-1-81

ALUMINUM ALLOY SHEET AND PLATE, ALCLAD
4.5Cu - 1.5Mg - 0.60Mn (Alclad 2024-T86)
Width Over 30 to 48 In., Incl

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 B and rules provide that: "All technical reports, including standards approved and practices recommended, are advisory only. Their use by any one engaged in industry or trade or 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."



AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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

AMS 4073

Issued 3-15-66
Revised

ALUMINUM ALLOY SHEET AND PLATE, ALCLAD 4.5Cu - 1.5Mg - 0.60Mn (Alclad 2024-T86) Width Over 30 to 48 In., Incl

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 over 30 to 48 in. , inclusive.
3. **APPLICATION:** Primarily for structural parts of good strength which are required to exhibit maximum corrosion resistance. 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 recommends practices to minimize such conditions.

4. **COMPOSITION:**

	Core (2024)			Cladding (1230)	
	min	max		min	max
Copper	3.8	4.9	Iron + Silicon	--	0.7
Magnesium	1.2	1.8	Copper	--	0.10
Manganese	0.30	0.9	Zinc	--	0.10
Iron	--	0.50	Manganese	--	0.05
Silicon	--	0.50	Other Impurities, each	--	0.05
Zinc	--	0.25	Aluminum, by difference	99.30	--
Chromium	--	0.10			
Other Impurities, each	--	0.05			
Other Impurities, total	--	0.15			
Aluminum	remainder				

5. **CONDITION:** Solution heat treated, cold reduced approximately 6% in thickness, and precipitation heat treated.
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 **Cladding Thickness:** After rolling, the average cladding thickness shall be as shown. Routine measurements are not required.

Total Thickness of Composite Product Inch	Cladding Thickness Per Side % of Total Thickness	
	min	max
0.020 to 0.062, incl	4.0	--
Over 0.062 to 0.187, incl	2.0	--
Over 0.187 to 0.500, excl	1.2	--
0.500	1.2	3.0

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