

CHESSENCIN



AEROSPACE MATERIAL SPECIFICATION **AMS** 4052A

lesued 3- 1-55 Revised 7- 1-81

400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

ALUMINUM ALLOY SHEET AND PLATE, ALUMINUM ALLOY CLAD 6.8Zn - 2.75Mg - 2Cu - 0.3Cr (Alclad X7178-T6)

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 10-31-68. It is recommended that this specification not be specified for new designs.

This cover sheet should be attached to the "A" revision 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 rep rts, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in Industry or trade r their use by governmental agencies is entirely v luntary. There is no agreement to adhere to any SAE standard r 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 n t investigate or consider patents which may apply t the subject matter. Prospective users if the rep it are respirately to the tecting themselves against liability for infringement if patents."



AEROSPACE MATERIAL

SPECIFICATION

AMS 4052A

3-1-55 Issued Revised 1-15-57

Society of Automotive Engineers, Inc.

400 COMMONWEALTH DRIVE WARRENDALE PA 15096

ALUMINUM ALLOY SHEET AND PLATE, ALUMINUM ALLOY CLAD 6.8Zn - 2.75Mg - 2Cu - 0.3Cr (Alc X7178-T6)

- ACKNOWLEDGMENT: A wendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
- APPLICATION: Primarily for structural use, including machine tapered parts.
- 3. COMPOSITION:

	Core		Cladding		
Ø	Zinc Magnesium Copper Chromium Iron Silicon Manganese Titanium Other Impurities, each Other Impurities, total Aluminum	6.3 - 7.3 2.4 - 3.1 1.6 - 2.4 0.18 - 0.40 0.7 max 0.50 max 0.30 max 0.20 max 0.05 max 0.15 max remainder	Zinc Silicon + Iron Magnesium Copper Manganese Other Impurities, each Other Impurities, total Aluminum		

- CONDITION: Solution and precipitation heat treated. 4.
- TECHNICAL REQUIREMENTS: 5.
- 5.1 Cladding Thickness: After rolling, the cladding thickness on each side shall be not less than 3-1/4% of the total composite thickness.
- 5.2 Tensile Properties: Test specimens shall conform to ASTM E8-54T except from sheet less than 3/4 in. wide and shall be cut across the direction of rolling except from sheet less than 9 in. wide. Elongation requirements apply only to sheet 3/4 im. and over in width.

man 17	Yield Strength at 0.2% Offset or at Extension Indicated		
-			Elongation
Strength	E	xtension under Loa	id % in 2 in.
psi, min	psi, min	in. in 2 in.	min
- ,	- •		
76,000	66,000	0.0178	7
78,000	68,000	0.0182	8
84,000	73,000	0.0182	6
84,000	73,000	0.0182	4
80,000	70,000	0.0176	3
	76,000 78,000 84,000 84,000	Tensile (Strength psi, min 76,000 66,000 78,000 68,000 84,000 73,000 84,000 73,000	or at Extension Indicated (See 5.2.1) Strength Extension Under Los psi, min psi, min in. in 2 in. 76,000 66,000 0.0178 78,000 68,000 0.0182 84,000 73,000 0.0182 84,000 73,000 0.0182