



AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 4063

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Revised

ALUMINUM ALLOY SHEET, CLAD ONE SIDE 1.25Mn (No. 11-0 Brazing Sheet)

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. **APPLICATION:** Primarily for brazed assemblies which are not subject to heat treatment after brazing.
3. **COMPOSITION:**

Core (3003)			Cladding (4343)		
	min	max		min	max
Manganese	1.0	- 1.5	Silicon	6.8	- 8.2
Iron	--	0.7	Iron	--	0.8
Silicon	--	0.6	Copper	--	0.25
Copper	0.05	- 0.20	Zinc	--	0.20
Zinc	--	0.10	Manganese	--	0.10
Other Impurities, each	--	0.05	Other Impurities, each	--	0.05
Other Impurities, total	--	0.15	Other Impurities, total	--	0.15
Aluminum	remainder		Aluminum	remainder	

4. **CONDITION:** Annealed.
5. **TECHNICAL REQUIREMENTS:** The product shall conform to the following requirements; tensile properties shall be determined in accordance with the latest issue of AMS 2355.
 - 5.1 **Cladding:** Material shall be clad on one side only.
 - 5.2 **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 % of Total Thickness min
Up to 0.063, incl	8
Over 0.063 to 0.250, excl	4

- 5.3 **Tensile Properties:**

Nominal Thickness Inch	Tensile Strength psi, max	Elongation % in 2 in., min
0.006 to 0.007, incl	20,000	12
Over 0.007 to 0.012, incl	20,000	15
Over 0.012 to 0.031, incl	20,000	18
Over 0.031 to 0.050, incl	20,000	20
Over 0.050 to 0.249, incl	20,000	23

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