



AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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

AMS 4006C

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ALUMINUM ALLOY SHEET AND PLATE 1. 25Mn (3003-0)

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 spinnings and severely formed parts where good weldability is required.
3. **COMPOSITION:**

	min	max
Manganese	1.0	1.5
Iron	--	0.7
Silicon	--	0.6
Copper	--	0.20
Zinc	--	0.10
Other Elements, each	--	0.05
Other Elements, total	--	0.15
Aluminum	remainder	

- Ø 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 **Tensile Properties:**

Ø	Nominal Thickness Inches	Tensile Strength, psi		Elongation % in 2 in. or 4D, min
		min	max	
	0.006 to 0.007, incl	14,000	19,000	14
	Over 0.007 to 0.012, incl	14,000	19,000	18
	Over 0.012 to 0.031, incl	14,000	19,000	20
	Over 0.031 to 0.050, incl	14,000	19,000	23
	Over 0.050 to 0.249, incl	14,000	19,000	25
	Over 0.249 to 3.000, incl	14,000	19,000	23

- 5.2 **Bending:** Material 0.249 in. and under in thickness shall be capable of withstanding, without cracking, bending at room temperature flat on itself with axis of bend parallel to the direction of rolling.
6. **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.
7. **TOLERANCES:** Unless otherwise specified, tolerances shall conform to all applicable requirements of the latest issue of AMS 2202.

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