



AEROSPACE MATERIAL SPECIFICATIONS

AMS 4000D

Superseding AMS 4000C

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SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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ALUMINUM SHEET AND PLATE (1060-0)

- 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 metallic gaskets and washers.
- 3. COMPOSITION:**

	min	max
Aluminum	99.60	--
Iron	--	0.35
Silicon	--	0.25
Copper	--	0.05
Zinc	--	0.05
Magnesium	--	0.03
Manganese	--	0.03
Titanium	--	0.03
Other Impurities, each	--	0.03

- 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:

Nominal Thickness Inches	Tensile Strength, psi		Elongation % in 2 in. or 4D, min
	min	max	
0.006 to 0.019, incl	8,000	14,000	15
Over 0.019 to 0.050, incl	8,000	14,000	22
Over 0.050 to 3.000, incl	8,000	14,000	25

- 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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