



AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
TWO PENNSYLVANIA PLAZA, NEW YORK, N. Y. 1000

AMS 4015F

Superseding AMS 4015E

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ALUMINUM ALLOY SHEET AND PLATE 2.5Mg - 0.25Cr (5052-0)

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 formed parts where welding, moderate strength, and good resistance to corrosion are required.
3. **COMPOSITION:**

	min	max
Magnesium	2.2	- 2.8
Chromium	0.15	- 0.35
Iron + Silicon	--	0.45
Zinc	--	0.10
Manganese	--	0.10
Copper	--	0.10
Other Impurities, each	--	0.05
Other Impurities, total	--	0.15
Aluminum	remainder	

4. **CONDITION:** Annealed and, unless otherwise specified, mill finish.
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
	0.006 to 0.007, incl	25,000 - 31,000	--
	Over 0.007 to 0.012, incl	25,000 - 31,000	14
	Over 0.012 to 0.019, incl	25,000 - 31,000	15
	Over 0.019 to 0.031, incl	25,000 - 31,000	16
	Over 0.031 to 0.050, incl	25,000 - 31,000	18
	Over 0.050 to 0.113, incl	25,000 - 31,000	19
	Over 0.113 to 0.249, incl	25,000 - 31,000	20
	Over 0.249 to 3.000, incl	25,000 - 31,000	18

- 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 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.