



AEROSPACE MATERIAL SPECIFICATION

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

AMS 4017F
Superseding AMS 4017E

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ALUMINUM ALLOY SHEET AND PLATE 2.5Mg - 0.25Cr (5052-H34)

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 parts requiring little forming and where resistance to corrosion is important.
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:** Strain hardened, stabilized (half-hard) 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:**

Nominal Thickness Inch	Tensile Strength psi	Elongation % in 2 in. or 4D, min
0.009 to 0.019, incl	34,000 - 41,000	3
Over 0.019 to 0.050, incl	34,000 - 41,000	4
Over 0.050 to 0.113, incl	34,000 - 41,000	6
Over 0.113 to 0.249, incl	34,000 - 41,000	7
Over 0.249 to 1.000, incl	34,000 - 41,000	10

- 5.2 **Bending:** Material shall be capable of withstanding, without cracking, bending at room temperature through an angle of 180 deg around a diameter equal to the bend factor times the nominal thickness of the material, with axis of bend parallel to direction of rolling.

Nominal Thickness Inch	Bend Factor
Up to 0.019, incl	1
Over 0.019 to 0.050, incl	2
Over 0.050 to 0.113, incl	3
Over 0.113 to 0.249, incl	4