

AEROSPACE MATERIAL SPECIFICATIONS

AMS 5516F

Superseding AMS 5516E

Issued 1-23-40 11-1-67 Revised

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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

STEEL SHEET, STRIP AND PLATE, CORROSION RESISTANT 18Cr - 8Ni - (SAE 30302) 36,000 psi Yield

- ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
- APPLICATION: Primarily for parts requiring drawing or forming.
- **COMPOSITION:**

	min	max
Carbon	 .	0.15
Manganese		2.00
Silicon		1.00
Phosphorus		0.040
Sulfur		0.030
Chromium	17.00 -	19.00
Nickel	8.00 -	10.00
Molybdenum		20. 50
Copper	, 4%	0.50

- Check Analysis: Composition variation shall meet the requirements of the latest issue of AMS 2248.
- CONDITION: Unless otherwise ordered, the product shall be supplied in the following condition.
- Sheet: Cold rolled, solution heat treated, and descaled (No. 2D finish). 4.1
- Strip: Cold rolled, solution heat treated, and descaled (No. 1 strip finish). 4.2
- Plate: Hot rolled, solution heat treated, and descaled. 4.3
- TECHNICAL REQUIREMENTS:
- Tensile Properties: 5.1

Ø	5	Yield Strength at 0.2% Offset or at Indicated Extension Under Load (E = 29,000,000), psi Elongation,				
	Nominal Thickness	Tensile Strength psi		0.0065 in. in 2 in.	0.0081 in. in 2 in.	% in 2 In. or 4D
	Inches	min	max	min	max	min
	0.002 to 0.003, incl	75,000	110,000	36,000	60,000	30
	Over 0.003 to 0.004, incl	75,000	105,000	36 ,000	6 0,000	35
	Over 0.004 to 0.176, incl	75,000	100,000	36,000	60,000	40
	Over 0 176	75 000	100 000			40

5.1.1 For widths 9 in. and over, tensile test specimens shall be taken with the axis perpendicular to the direction of rolling. For widths less than 9 in., tensile test specimens shall be taken with the axis parallel to the direction of rolling.