

TYPE 301 HIGH YIELD STAINLESS STEEL STRIP

Type 301 High Yield, ASTM-A666, issued for special applications requiring extra high strength and hardness. This extra high strength material has a minimum tensile strength of 270,000 PSI.

Chemical Composition	%	Thickness Tolerances < 6" ASTM-A480	Tolerance (inch)
Carbon	.150 max	over .020 - .032 included	+/- .0015
Manganese	2.00 max	over .010 - .020 included	+/- .001
Silicon	1.00 max	under .010	+/- 10%
Phosphorus	.040 max		
Sulfur	.030 max		
Chromium	16.00 – 18.00		
Nickel	6.00 – 8.00		
Molybdenum*	.750 max		
Copper*	.750 max		
*Provided when AMS5519 applies			

MECHANICAL PROPERTIES

Condition	Tensile Min PSI	Tensile Max PSI	Elong % Min	Hardness
High Yield	270,000	300,000	1.0	RC47-52
Type 301 High Yield stainless steel strip is sold to AMS5519 chemical properties only. Mechanical properties listed are for general reference only.				

Additional Information		
Width Tolerance	+/- .003	
Camber Tolerance	Up to and including 1.500" wide	.500" in 8 feet
	Over 1.500" wide	.250" in 8 feet
Edges Available	#3 Slit edge	
	#5 Deburred edge	
	#1 Round edge	

The above charts are intended to provide general background information. You should also review the appropriate material specification. Please contact Gibbs Interwire if you have any questions.

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