

TYPE 316 STAINLESS STEEL STRIP

Type 316, ASTM-A666 stainless steel strip are molybdenum bearing stainless steels possessing a greatly increased resistance to chemical attack as compared to that of the basic chromium-nickel analysis. In addition, Type 316 also offers higher creep, stress-to-rupture, and tensile strengths at elevated temperatures than any other stainless steel. Gibbs Interwire stocks this material in the annealed and ¼ hard conditions.

Chemical Composition	%	Thickness Tolerances	Tolerance (inch)
Carbon	.080 max	over .050 - .062 included	+/- .0030
Manganese	2.00 max	over .035 - .050 included	+/- .0025
Silicon*	.75 - 1.00 max	over .020 - .035 included	+/- .0020
Phosphorus	.040 max	over .010 - .020 included	+/- .0015
Sulfur	.030 max	under .010	+/- 10%
Chromium	16.00 - 18.00		
Nickel	10.00 - 14.00		
Molybdenum*	2.00 – 3.00		
Copper*	.750 max		
*Per AMS Spec			

MECHANICAL PROPERTIES

Condition	AMS Specification	Tensile Min PSI	Yield Min PSI	Elong % Min	Condition
Annealed	5524	75,000	30,000	40 / 45*	RB 95 max
¼ Hard	5907	125,000	75,000	10	RC 25 min
*.025 thickness and over					

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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