

TYPE 316 STAINLESS STEEL STRIP

Type 316, ASTM A-666 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 stocks this material in gauges from .010 to .025 in the annealed and 1/4 hard conditions.

Chemical Composition	%	Thickness Tolerances < 6ö AMS2242	Tolerance (inch) +/-
Carbon	.08 max	over .050 - .069 incl	+5% of thickness
Manganese	2.00 max	over .035 - .050 incl	+5% of thickness
Silicon	1.00 max	over .029 - .035 incl	+5% of thickness
Phosphorus	.040 max	over .020 - .029 incl	+5% of thickness
Sulfur	.030 max	over .017 - .020 incl	+5% of thickness
Chromium	16.00 ö 18.0	over .013 - .017 incl	+5% of thickness
Nickel	10.0 ö 14.0	over .011 - .013 incl	+5% of thickness
Molybdenum	2.00 ö 3.00	over .010 - .011 incl	+5% of thickness
Copper	.75 max	under .010	+5% of thickness

Mechanical Properties

Condition	AMS Specification	Tensile Min PSI	Yield Min PSI	Elong % Min	Hardness
Annealed	5524	75,000	30,000	40 / 45*	RB 95 max
1/4 Hard	5907	125,000	75,000	10	RC 25 min

* .025 thickness and over

Additional Information		
Width Tolerance	+/- .003	
Camber Tolerance	.500ö in 8 feet max	
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 if you have any questions.