

TYPE 301 HIGH YIELD STAINLESS STEEL STRIP

Type 301 High Yield, ASTM-A-666, issued for special applications requiring extra high strength and hardness. This extra high strength material has a minimum tensile strength of 270,000 PSI. Gibbs stocks 301 High Yield Strip in gauges from .002 to .032 precision slit to widths from .022ö. Type 301 High Yield is sold to AMS5519 ö Chemical properties only.

Chemical Composition AMS5519	%	Thickness Tolerances < 6ö AMS2242	Tolerance (inch)
Carbon	.15 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 18.00%	over .013 - .017 incl	+ -5% of thickness
Nickel	6.00 - 8.00%	over .011 - .013 incl	+ -5% of thickness
Molybdenum	.750 max	over .010 - .011 incl	+ -5% of thickness
Copper	.750 max	under .010	+ -5% of thickness
Mechanical Properties			
Condition	Tensile Min PSI	Tensile Max PSI	Elong % Min
High Yield	270,000	300,000	---
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	.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.