

# Technical Data Sheet

## 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.

301 High Yield Strip in gauges from .002 to .032 precision slit to widths from .022". Type 301 High Yield is sold to AMS5519 and ASTM A666 – Chemical properties only.

Chemical Composition	%		Thickness Tolerances < 6” AMS2242	Tolerance (inch)	
Carbon	0.15 max		over .029 - .032 incl	+/- .0020	
Manganese	2.00 max		over .020 - .029 incl	+/- .0020	
Silicon	1.00 max		over .017 - .020 incl	+/- .0015	
Phosphorus	.040 max		over .013 - .017 incl	+/- .0015	
Sulfur	.030 max		over .011 - .013 incl	+/- .0015	
Chromium	16.00 – 18.00		over .010 - .011 incl	+/- .0015	
Nickel	6.00 - 8.00		under .010	+/- 10%	
Molybdenum	.750 max				
Copper	.750 max				
Mechanical Properties					
Condition	Tensile Min PSI		Tensile Max PSI	Elong % Min	Hardness (Reference Only)
High Yield	270,000		300,000	---	RC47 – 52
Type 301 High Yield stainless steel strip is sold to AMS5519 and ASTM A666 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.