

TYPE 301 STAINLESS STEEL STRIP

Type 301 Stainless Strip, ASTM-A666, is slightly lower in chromium and nickel content than Type 302. The lower nickel content causes Type 301 to work harden more rapidly and retain greater ductility than the same temper of Type 302. Type 301 is available in a variety of tempers.

Chemical Composition	%	Thickness Tolerances < 6" ASTM A480	Tolerance (inch)
Carbon	.150 max	over .050 - .062 included	+/- .0030
Manganese	2.00 max	over .035 - .050 included	+/- .0025
Silicon	1.00 max	over .020 - .035 included	+/- .0015
Phosphorus	.040 max	.010 - .020 included	+/- .001
Sulfur	.030 max	under .010	+/- 10%
Chromium	16.00 - 18.00		
Nickel	6.00 - 8.00		
Molybdenum	.750 max		
Copper	.750 max		

MECHANICAL PROPERTIES

Condition	Applicable AMS Spec	Tensile Min PSI	Yield Min PSI	Elong % Min	Hardness (Ref)
Annealed	5901	75,000	30,000	40%	B 92 max
¼ Hard	5517	125,000	75,000	25%	C 25 min
½ Hard	5518	150,000	110,000	≤ .015" = 15%	C 32 min
				> .015" = 18%	
¾ Hard	5902	175,000	135,000	≤ .030" = 10%	C 37 min
				> .030" = 12%	
Full Hard	5519	185,000	140,000	≤ .015" = 8%	C 41 min
				> .015" = 9%	

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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