

TYPE 304 STAINLESS STEEL STRIP

Type 304, ASTM-A-666, is similar to Type 302, but has a maximum carbon content of .08%. This material has an excellent combination of corrosion resistance and fabricability. Gibbs stocks Type 304 stainless in gauges from .005ö to .062ö.

Chemical Composition (AMS 5513)	%	Thickness Tolerances < 6ö (AMS 2242)	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	18.00 -20.0	over .013 - .017 incl	+5% of thickness		
Nickel	8.0 ö 10.5	over .011 - .013 incl	+5% of thickness		
Molybdenum	.75 max	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	5513	75,000	30,000	40	RB 92 max
¼ Hard	5910	125,000	75,000	10 / 12*	RC 25 min
½ Hard	5911	150,000	110,000	6 / 7**	RC 32 min
¾ Hard	5912	175,000	135,000	3 / 5**	RC 37 min
Spring	5913	185,000	140,000	3 / 5**	RC 41 min
*Over .030 thickness					
** Over .015 thickness					

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.