

TYPE 305 EYELET QUALITY STAINLESS STEEL STRIP

Type 305 is used for applications requiring a low rate of work hardening and typically undergoes severe cold forming during fabrication. The higher nickel content slows the work hardening and makes it ideal for eyelet and other deep draw applications. Gibbs can supply Type 305 Eyelet Quality in gauges from .005 to .025 in the deep draw annealed condition.

Chemical Composition AMS5514	%	Thickness Tolerances < 6 mil AMS2242	Tolerance (inch)
Carbon	.12 max	over .050 - .069 incl	+5% of thickness
Manganese	2.0 max	over .035 - .050 incl	+5% of thickness
Silicon	1.0 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	17.00 - 19.00	over .013 - .017 incl	+5% of thickness
Nickel	10.00 - 13.00	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 (AMS 5514)

Condition	Tensile Min PSI	Yield Min PSI	Elong % Min	Hardness
Annealed	75,000	30,000	Less than .025 mil 45% .025 mil and over 50%	92 HRB max

Additional Information

Width Tolerance	+/- .003	
Camber Tolerance	.500 mil 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.