Gibbs
WIRE & STEEL COMPANY, INC.

Technical Data Sheet

TYPE 316 STAINLESS STEEL STRIP

Type 316, ASTMA-666 stainless steel strip are molydbenum bearing stainless steels possessing a greatly increased resistance to chemical attack as compared to that of the basic chromium-nickel analysis. In addition, Type 316 also offers higher creep, stress-to-rupture, and tensile strengths at elevated temperatures than any other stainless steel. Gibbs stocks this material in gauges from .010" - .025" in the annealed and ¼ hard conditions.

Chemical Composition	%
Carbon	0.08 max
Manganese	2.00 max
Silicon	1.00 max
Phosphorus	0.040 max
Sulfur	0.030 max
Chromium	16.00 – 18.00
Nickel	10.00 – 14.00
Molybdenum	2.00 – 3.00
Copper	0.75 max

Thickness Tolerances < 6" AMS2242	Tolerance (inch) +/-
over .050 - .062 incl	+/- .0030
over .035 - .050 incl	+/- .0025
over .029 - .035 incl	+/- .0020
over .020 - .029 incl	+/- .0020
over .017 - .020 incl	+/- .0015
over .013 - .017 incl	+/- .0015
over .011 - .013 incl	+/- .0015
over .010 - .011 incl	+/- .0015
under .010	+/- 10%

Mechanical Properties

Condition	AMS Specification	Tensile Min PSI	Yield Min PSI	Elong % Min	Hardness (Reference Only)
Annealed	5524	75,000	30,000	40 / 45*	RB 95 max
¼ Hard	5907	125,000	75,000	10	RC 25 min

* .025 thickness and over

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 if you have any questions.

Gibbs Wire & Steel Company Inc.
Metals Drive, Southington, CT 06489 (860) 621-0121

No. 1032 01/14