Technical Data Sheet

TYPE 316 STAINLESS STEEL WIRE

Gibbs Interwire

Similar in composition to Type 302, Type 316 stainless steel wire has a slightly higher nickel content and 2 - 2.5% molybdenum giving this alloy better corrosion resistance. Type 316's tensile strength is 10 - 15% lower than that of Type 302, and the alloy is slightly less magnetic in the spring temper than Type 302. With its superior cold working properties, it can be used for severe cold forming operations and exhibits short time tensile and creep strength properties at elevated temperatures. Gibbs Interwire Type 316 stainless steel wire is coated for coiling and is available in the range .015 - .625" conforming to ASTM A313. All sizes are suitably coated for automatic coiling.

Chemical Composition Per ASTM-A-313								
Carbon	.070%	Sulfur	.030%	Nickel	10.50 – 13.50%			
Manganese	2.00%	Silicon	1.00%	Molybdenum	2.00 - 2.50%			
Phosphorus	.045%	Chromium	16.50 - 18.00%	Nitrogen	.10%			

TENSILE STRENGTH TABLE (ASTM-A-313)

Diameter Inch	Tensile Min PSI	Tensile Max PSI	Diameter Inch	Tensile Min PSI	Tensile Max PSI
.009	245,000	275,000	.041047 incl.	230,000	260,000
.009010 incl.	245,000	275,000	.047054 incl.	225,000	255,000
.010011 incl.	240,000	240,000	.054062 incl.	220,000	250,000
.012013 incl.	240,000	240,000	.062072 incl.	215,000	245,000
.013014 incl.	240,000	240,000	.072080 incl.	210,000	240,000
.014015 incl.	240,000	240,000	.080092 incl.	205,000	235,000
.015016 incl.	235,000	265,000	.092105 incl.	200,000	230,000
.016017 incl.	235,000	265,000	.105120 incl.	195,000	225,000
.017018 incl.	235,000	265,000	.120148 incl.	185,000	215,000
.018019 incl.	235,000	265,000	.148166 incl.	180,000	210,000
.019020 incl.	235,000	265,000	.166177 incl.	170,000	200,000
.020022 incl.	235,000	265,000	.177208 incl.	160,000	190,000
.022024 incl.	235,000	265,000	.207225 incl.	155,000	185,000
.024026 incl.	235,000	265,000	.225250 incl.	150,000	180,000
.026028 incl.	235,000	265,000	.250312 incl.	140,000	170,000
.028032 incl.	235,000	265,000	.312375 incl.	135,000	165,000
.032036 incl.	235,000	265,000	.375500 incl.	130,000	160,000
.036041 incl.	235,000	265,000	.500 - over	125,000	155,000

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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Locations in the USA, Canada, & Mexico

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