

OIL TEMPERED MB SPRING WIRE CLASS II

This is a general purpose, commercial quality, Class II tensile, spring steel wire. With a quality between hard drawn spring wire and music wire, moderately priced OTMB is excellent for springs without severe bends. The material is cold drawn to the desired size and heat treated by a continuous tempering method. A low temperature stress relief is required after processing. Wire is available in size ranges from .120”-.625”.

Chemical Composition Per ASTM-A-229 *Max values		Dimensional Tolerances	Tolerance (inch)
Carbon	0.55 - 0.85%	.020 to .028	+/- .0008
Manganese	0.30 - 1.20%	Over .028 to .075	+/- .001
Phosphorus	0.040% *	Over .075 to .375	+/- .002
Sulfur	0.050% *	Over .375 to .625	+/- .003
Silicon	0.15 – 0.35%		

Tensile Strength Table (ASTM- A229)

Dia. Inch	Tensile Min PSI	Tensile Max PSI	Dia. Inch	Tensile Min PSI	Tensile Max PSI
.020	324,000	354,000	.135	241,000	266,000
.023	320,000	350,000	.148	236,000	261,000
.026	317,000	347,000	.162	231,000	256,000
.029	314,000	344,000	.177	226,000	251,000
.032	311,000	341,000	.192	221,000	246,000
.035	305,000	335,000	.207	216,000	241,000
.041	297,000	327,000	.225	214,000	239,000
.048	290,000	320,000	.244	213,000	238,000
.054	284,000	314,000	.250	211,000	236,000
.062	278,000	308,000	.312	209,000	234,000
.072	272,000	302,000	.375	206,000	231,000
.080	266,000	296,000	.438	201,000	226,000
.092	261,000	291,000	.500	196,000	221,000
.106	256,000	286,000	.562	191,000	216,000
.120	251,000	281,000	.625	191,000	216,000

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.