

HARD DRAWN MB SPRING WIRE CLASS I

This is a medium carbon, cold drawn spring wire for the production of commercial quality mechanical springs. Gibbs stocks this wire with class I tensile only. Wire is available in size ranges from .008”-.375”

Chemical Composition Per ASTM-A-227 *Max values		Dimensional Tolerances	Tolerance (inch)
Carbon	0.45 - 0.85%	.020 to .028, incl	+/- .0008
Manganese	0.30 - 1.30%	Over .028 to .075, incl	+/- .0010
Phosphorus	0.040% *	Over .075 to .375, incl	+/- .0020
Sulfur	0.050% *	Over .375 to .625, incl	+/- .0030
Silicon	0.15 - 0.35%		

Tensile Strength Table (ASTM-A227)

Dia. Inch	Tensile Min PSI	Tensile Max PSI	Dia. Inch	Tensile Min PSI	Tensile Max PSI
.020	283,000	323,000	.135	206,000	237,000
.023	279,000	319,000	.148	203,000	234,000
.026	275,000	315,000	.162	200,000	230,000
.029	271,000	311,000	.177	195,000	225,000
.032	266,000	306,000	.192	192,000	221,000
.035	261,000	301,000	.207	190,000	218,000
.041	255,000	293,000	.225	186,000	214,000
.048	248,000	286,000	.250	182,000	210,000
.054	243,000	279,000	.312	174,000	200,000
.062	237,000	272,000	.375	167,000	193,000
.072	232,000	266,000	.438	165,000	190,000
.080	227,000	261,000	.500	156,000	180,000
.092	220,000	253,000	.562	152,000	176,000
.106	216,000	248,000	.625	147,000	170,000
.120	210,000	241,000			

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.