

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 Interwire stocks this wire with class I tensile only. Meets ASTM A227.

Chemical Composition Per ASTM-A-227			Dimensional Tolerances	Tolerance (inch)
Carbon	.45 - .85%		.020 to .028 included	+ / - .0008
Manganese	.30 - .1.30%		Over .028 to .075 included	+ / - .0010
Phosphorus	.04%		Over .075 to .375 included	+ / - .0020
Sulfur	.05%		Over .375 to .625 included	+ / - .0030
Silicon	.15 - .35%			

TENSILE STRENGTH TABLE (ASTM-A-227)

Diameter Inch	Tensile Min PSI	Tensile Max PSI	Diameter 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 Interwire if you have any questions.

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