



HSM Wire International, Inc

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AISI 1075 Carbon Steel

Nominal Composition:	C%	Mn%	P%	S%
	0.70 - 0.80	0.40 - 0.70	4%	5%

Applications: Design Engineers use Aisi 1075 Carbon Steel for springs or cutting tools.

Physical Properties

English Units

Specific Gravity	7.86
Specific Heat	0.107 Btu/lb/Deg F - [32 - 212 Deg F]
Melting Point	2760 °F
Density	.284 lb / cu. in. @68 °F
Poissons Ratio	0.3
Thermal Conductivity	360
Mean Coeff Thermal Expansion	6.7
Modulus of Elasticity (Tension)	30 psi x 10 ⁶
Modulus of Torsion	11 x 10 ⁶

Mechanical Properties

English Units

Rockwell Hardness	C24 - 33
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*To be used as a guideline only.

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