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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

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

**Mechanical Properties**

English Units

<b>Rockwell Hardness</b>	C24 - 33
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\*To be used as a guideline only.

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