



# HSM Wire International, Inc

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## AISI 1010 Carbon Steel

Nominal Composition:	C%	Mn%	P%	S%	Fe%
	0.10	0.45	0.04 max	0.05 max	Balance

## Physical Properties

	English Units	Metric Units
Density	.284 lb / cu. in. @68 °F	7.7 - 8.03 x 1000 kg/m <sup>3</sup>
Specific Gravity	7.86	7.86

## Mechanical Properties

	English Units	Metric Units
Hardness, Brinell	105	105
Tensile Strength, Ultimate	N/A	365 MPa
Tensile Strength, Yield	N/A	305 MPa
Elongation at Break	20.00%	20.00%
Modulus of Elasticity	N/A	190 - 210 GPa
Poissons Ratio	0.27 - 0.30	0.27 - 0.30

## Thermal Properties

	English Units / Metric Units
Specific Heat Capacity	0.107 BTU/lb - °F / 450 J/kg-K
Thermal Conductivity	65.2 W/m-K

\*To be used as a guideline only.

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