



# HSM Wire International, Inc

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## Alloy 280 - Muntz Metal

**Description:** Alloy 280 is referred as Muntz Metal, and the color is what is important for this metal, which essentially is architectural bronze.

**Applications:** panels, large sheet and trim, large nuts and bolts, condenser plates.

<b>Composition Limits:</b>	<b>Cu%</b>	<b>Zn%</b>	<b>Pb%</b>	<b>Fe%</b>
	59 -63%	Balance	0.09% Max	0.07% Max
<b>Nominal Composition:</b>	<b>Cu%</b>	<b>Zn%</b>	<b>Pb%</b>	<b>Fe%</b>
	60%	40%	-	-

## Physical Properties

	English Units
<b>Poisson's Ratio</b>	0.34
<b>Tensile Strength</b>	70 ksi
<b>Density</b>	0.303 lb/cu in @ 68°F
<b>Thermal Conductivity</b>	71 BTU ft/sq ft-hr-°F @ 68°F
<b>Coefficient of Thermal Expansion</b>	0.0000116 per °F (68 - 572°F)
<b>Yield Strength</b>	50 ksi
<b>Electrical Conductivity, Annealed</b>	28% I.A.C.S
<b>Thermal Capacity (Specific Heat)</b>	0.09 BTU/lb-°F @ 68°F
<b>Elongation (in 2")</b>	10%
<b>Melting Point</b>	1650°F
<b>Hardness (Rockwell B Scale)</b>	75%
<b>Modulus of Elasticity (Tension)</b>	15,000 ksi

\*To be used as a guideline only.

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