

# HM Wire International, Inc.

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## Alloy 230 - Red Brass

**Applications:** Typically used for rotor bar applications.

<b>Nominal Composition:</b>	<b>Cu%</b>	<b>Zn%</b>		
	85.0%	15.0%		
<b>Composition Limits:</b>	<b>Cu%</b>	<b>Zn%</b>	<b>Fe%</b>	<b>Pb%</b>
	84 - 86%	Balance	0.05% Max	0.05% Max

### Physical Properties

	English Units	Metric Units
<b>Melting Point, Liquidus</b>	1950°F	1065°C
<b>Melting Point, Solidus</b>	1920°F	1050°C
<b>Density</b>	0.318 lb/cu in @ 68°F	
<b>Coefficient of Thermal Expansion per °F</b>	10.2 x 10 <sup>6</sup> in/in/°F (68-572°F)	
<b>Thermal Conductivity</b>	109 Btu/ft <sup>2</sup> /ft.hr/°F @ 68°F	
<b>Modulus of Elasticity - Tension</b>	17 x 1000 ksi	
<b>Electrical Conductivity at 68 °F</b>	44% IACS	

### Tensile Strength: x Ksi (Kgf/mm<sup>2</sup> - Ksi x 0.7031)

Temper	Tensile Strength: x Ksi (Kgf/mm <sup>2</sup> - Ksi x 0.7031)	Elongation in 50 mm (2 in.), %	Yield Strength: x Ksi (0.2% offset)(Kgf/mm <sup>2</sup> - Ksi x 0.7031)
Annealed	36 - 43	44	12
1/4 Hard	40 - 50	27	33
1/2 Hard	47 - 57	13	47
3/4 Hard	52 - 62	8	53
Hard	57 - 66	4	57
Extra Hard	64 - 72	2	69
Spring	69 - 77	1	68
Extra Spring	72 - 80	2 max	70

\*To be used as a guideline only.