



HSM Wire International, Inc

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Alloy 230 - Red Brass

Applications: Typically used for rotor bar applications.

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

Physical Properties

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

Tensile Strength: x Ksi (Kgf/mm² - Ksi x 0.7031)

Temper	Tensile Strength: x Ksi (Kgf/mm ² - Ksi x 0.7031)	Elongation in 50 mm (2 in.), %	Yield Strength: x Ksi (0.2% offset)(Kgf/mm ² - 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.

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