

B150 C63200

Chemical Properties

Element	Chemical Composition %
Copper (Cu)	Balance
Aluminium (Al)	8.7 - 9.5
Iron (Fe)	3.5 - 4.3
Lead (Pb)	0.02
Manganese (Mn)	1.2 - 2.0
Nickel (Ni)	4.0 - 4.8
Silicon (Si)	0.10

Physical Properties

Property	Value
Melting Point - Liquidus	1940 °F
Melting Point - Solidus	1905 °F
Density	0.276 lb/in ³ at 68 °F
Specific Gravity	7.64
Electrical Resistivity	148.0 Ωs-cmil/ft @ 68 °F
Electrical Conductivity	7% IACS @ 68 °F
Thermal Conductivity	20.0 Btu ft/(hr ft ² °F) at 68 °F
Coefficient of Thermal Expansion	9.0 - 10.0 10 ⁻⁶ per °F (68-572 °F)
Specific Heat Capacity	0.105 Btu/lb/°F at 68 °F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi

Room Temperature Tensile & Hardness Data

Form	Rod		
Temper	050		
Section Size (ins)	1	2	3
Tensile Strength (ksi) min	105	103	102
Yield Strength (ksi) min	53	52	51
Elongation in HD min	22%	24%	24%
Rockwell Hardness (B)	96	94	93
Shear Strength (ksi)	-	-	-
Fatigue Strength (ksi)	-	-	-

Product Forms

Round Bar

Disclaimer

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