187 - 241

187 - 241

148 - 178

201 - 248



B150 C63000

Chemical Properties						
Element	Chemic	Chemical Composition %				
Copper (Cu)	Balance	Balance				
Aluminium (AI)	9.0 - 11.	9.0 - 11.0				
Iron (Fe)	2.0 - 4.0	2.0 - 4.0				
Manganese (Mn)	1.5	1.5				
Nickel (Ni)	4.0 - 5.5	4.0 - 5.5				
Silicon (Si)	0.25	0.25				
Tin (Sn)	0.20	0.20				
Zinc (Zn)	0.30	0.30				
Physical Properties						
Property	Value	Value				
Melting Point - Liquidus	1930 °F	1930 °F				
Melting Point - Solidus	1895 °F	1895 °F				
Density	0.274 lb/	0.274 lb/in ³ at 68°F				
Specific Gravity	7.58	7.58				
Electrical Resistivity	116.0 Ω	116.0 Ωs-cmil/ft @ 68 °F				
Electrical Conductivity	7% IACS	7% IACS @ 68 °F				
Thermal Conductivity	22.6 Btu	22.6 Btu ft/(hr ft ² °F) at 68 °F				
Coefficient of Thermal Expansion	9.0 10 ⁻⁶	9.0 10 ⁻⁶ per °F (68-572 °F)				
Specific Heat Capacity	0.09 Btu	0.09 Btu/lb °F at 68°F				
Modulus of Elasticity in Tension	17500 ks	17500 ksi				
Modulus of Rigidity	6400 ksi	6400 ksi				
Machinability Rating	30%					
Room Temperature Tensile & Hardness Data	1					
Form	Temper	Section Size (ins)	Tensile (ksi) min	Yield (ksi) min	Elongation in HD min	Brinell (3000 kg)
Rod	Hot or cold	up to 1.0	110	68	10	201 - 248
	Finished	to 2.0	110	60	10	201 - 248

Product Forms

Round Bar

Forging

Disclaimer

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

to 3.0

3.0 - 12.0

12.0 Plus

and

Heat

Heat

treated

Treated

105

100

80

85

55

50

40

42.5

10

10

17

10

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