

C95500

Chemical Properties

Element	Chemical Composition %
Copper (Cu)	78.00 min
Iron (Fe)	3.00 - 5.00
Nickel (Ni)	3.00 - 5.50
Aluminium (Al)	10.00 - 11.50
Manganese (Mn)	3.50

Physical Properties

Property	Value
Melting Point - Liquidus	1930 °F
Melting Point - Solidus	1900 °F
Density	0.272 lb/in ³ at 68 °F
Specific Gravity	7.530
Electrical Resistivity	122.8 Ωs.cmil/ft @ 68 °F
Electrical Conductivity	8.5 % IACS @ 68 °F
Thermal Conductivity	24.2 Btu ft/(hr ft 2°F) at 68 °F
Coefficient of Thermal Expansion	9 10 ⁻⁶ per °F (68-572 °F)
Specific Heat Capacity	0.105 Btu/lb/°F at 68 °F
Modulus of Elasticity in Tension	16000 ksi
Magnetic Permeability	1.20
Poisson's Ratio	0.320

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.

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