

NF L14-706 CuAl1 1Ni5Fe5 / UA11N

Chemical Properties

Element	Chemical Composition %
Copper (Cu)	Balance
Aluminium (Al)	10.6
Nickel (Ni)	4.9
Iron (Fe)	4.7
Manganese (Mn)	0.3

Mechanical Properties

Condition	Typical Size Range (mm)	0.2% Proof Rp0,2 (MPa)	UTS Rm (MPa)	Elongation 5.65 Sqr So (%)	Hardness (HB)
Extruded & Drawn	10 - 75	390 - 600	740 - 900	10 - 20	200 - 255
Rolled	50 - 175	390 - 500	700 - 850	10 - 20	190 - 240

Physical Properties

Property	Value
Young's Modulus	125 GPa
Density	7.5 g/cm ³
Melting Range	1060 - 1075 °C
Coefficient of Expansion (20 - 300 °C)	17 10 ⁻⁶ m/m °C
Thermal Conductivity	46 W/m K
Electrical Conductivity	8% IACS
Electrical Resistivity	0.216 10 ⁻⁶ Ω m
Relative Magnetic Permeability	1.5
Specific Heat	375 J/kg K

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