

Nickel/Copper Alloy Powder (Ni70/Cu30)

Formula: Ni70/Cu30

Percentage Purity: 98%

Maximum Particle Size: 150 μ m

Weight: 100g

Production Method: Atomised

UOM Code: 121-254-50

SKU: 1000031985-group

Product Code: NI07-PD-000111

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	100-260
Elongation at break(%)	50
Modulus of elasticity(GPa)	160-180
Izod impact strength(J m ²)	90-160
Tensile strength(MPa)	480-1200

Electrical Properties

Element	Value
Electrical resistivity(μ Ohmcm)	48

Thermal Properties

Element	Value
Melting point(C)	1300-1350
Specific heat(J K ⁻¹ kg ⁻¹)	420@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	26@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	13.6-14@20-100°C

Physical Properties

Element	Value
---------	-------

Density(gcm³) 8.9