

Inconel® 600 Powder

Formula: Ni72/Cr16/Fe 8

Maximum Particle Size: 45µm

Weight: 200g

UOM Code: 156-480-48

SKU: 1000053814-group

Product Code: NI02-PD-000125

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	120-290
Elongation at break(%)	50
Modulus of elasticity(GPa)	157
Izod impact strength(J m ²)	160
Shear strength(MPa)	420-570
Tensile strength(MPa)	600-1200

Magnetic Properties

Element	Value
Initial permeability	1.01
Curie temperature(C)	-124

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	103

Thermal Properties

Element	Value
Melting point(C)	1370-1425
Specific heat(J K ⁻¹ kg ⁻¹)	444@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	14.8@23°C

Element	Value
Coefficient of thermal expansion($\times 10^{-6} \text{ K}^{-1}$)	11.5-13.3@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	8.42