

Inconel® 617 Spherical Powder

Formula: Ni57/Cr22/Co12/Mo 9

Maximum Particle Size: 106µm

Particle Size D90: 45µmµm

Weight: 100g

Product Shape: Spherical

Production Method: Gas Atomised

UOM Code: 000-489-12

SKU: 1000000083-group

Product Code: NE06-PD-000175

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	62
Modulus of elasticity(GPa)	190-200
Izod impact strength(J m ⁻¹)	232
Tensile strength(MPa)	730-760

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	1.22-1.34
Temperature coefficient(K ⁻¹)	-

Thermal Properties

Element	Value
Melting point(C)	1332-1380
Specific heat(J K ⁻¹ kg ⁻¹)	419@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	13.4@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	11.6@20-200°C

Physical Properties

Element	Value
Density(gcm ³)	8.36