Inconel® 718 Spherical Powder - W 200g

Formula: Ni53/Fe19/Cr19/Nb/Mo/Ti
Maximum Particle Size: 45µm
Weight: 200g
Product Shape: Spherical
Production Method: Gas Atomised
UOM Code: 924-499-85
Legacy Code: NI136030
Distributor Code: GF92449985
SKU: 1000158802
Product Code: NI13-PD-000130

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	250-410
Elongation at break(%)	15
Modulus of elasticity(GPa)	200
Tensile strength(MPa)	800-1360

Magnetic Properties

Element	Value
Initial permeability	1.0013
Curie temperature(C)	-196

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	125

Thermal Properties

Element	Value
Maximum use temperature in air(C)	700
Melting point(C)	1260-1335

Element	Value
Specific heat(J K?¹ kg?¹)	435@23°C
Thermal conductivity(W m?¹ K?¹)	11.2@23°C
Coefficient of thermal expansion(x10?? K?¹)	13@20-100°C

Physical Properties

Element	Value
Density(gcm?³)	8.19