

AISI 347 Stainless Steel Powder

Formula: Fe/Cr18/Ni10/Nb

Maximum Particle Size: 45µm

Weight: 2500g

Production Method: Atomised

UOM Code: 209-620-07

SKU: 1000085734-group

Product Code: FE23-PD-000110

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break(%)	60
Modulus of elasticity(GPa)	190-210
Izod impact strength(J m ²)	20-136
Tensile strength(MPa)	520-1100

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	70-73

Thermal Properties

Element	Value
Maximum use temperature in air(C)	800
Melting point(C)	1400-1425
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@100°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	16-18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.93