

Aluminum/Silicon Alloy Powder (Al88/Si12)

Formula: Al88/Si12

Maximum Particle Size: 150 μ m

Weight: 1000g

UOM Code: 522-244-41

SKU: 1000021210-group

Product Code: AL13-PD-000111

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	20
Modulus of elasticity(GPa)	71.1
Tensile strength(MPa)	241.5

Electrical Properties

Element	Value
Electrical resistivity(μ Ohmcm)	5.56

Thermal Properties

Element	Value
Melting point(C)	577
Thermal conductivity(W m ⁻¹ K ⁻¹)	121@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	20.4@20-100°C

Physical Properties

Element	Value
Density(gcm ⁻³)	2.66