

Aluminum/Silicon Alloy Spooled Wire (Al88/Si12)

Formula: Al88/Si12

Product Shape: Spooled

Diameter: 0.4mm

Length: 0.5m

Temper: As Drawn

UOM Code: 403-810-17

SKU: 1000021312-group

Product Code: AL13-WR-000140

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(μOhmcm)	5.56

Thermal Properties

Element	Value
Melting point(C)	577
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	121@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	20.4@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	2.66