

Aluminum/Magnesium/Silicon Alloy Rod (Al98.8/Mg 0.7/Si 0.5)

Formula: Al98.8/Mg 0.7/Si 0.5

Diameter: 4.76mm

Length: 1000mm

Temper: Soft

UOM Code: 063-858-33

SKU: 1000008934-group

Product Code: AL07-RD-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	35-75
Elongation at break(%)	30
Modulus of elasticity(GPa)	71
Izod impact strength(J m ²)	30-45
Shear strength(MPa)	100-160
Tensile strength(MPa)	150-250

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	3.25-3.50
Temperature coefficient(K ⁻¹)	0.003-0.0036

Physical Properties

Element	Value
Density(gcm ³)	2.7

Thermal Properties

Element	Value
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Thermal conductivity($W m^{-1} K^{-1}$) 190-205@23°C

Coefficient of thermal expansion($\times 10^{-6} K^{-1}$) 23@20-100°C