

Aluminum/Magnesium Alloy Rod (Al97/Mg 3)

Formula: Al97/Mg 3

Diameter: 20mm

Length: 1000mm

UOM Code: 938-076-58

SKU: 1000019892-group

Product Code: AL01-RD-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	45-100
Elongation at break(%)	25
Modulus of elasticity(GPa)	65-75
Izod impact strength(J m ¹)	30-50
Shear strength(MPa)	125-175
Tensile strength(MPa)	200-350

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	4.5-5.7
Temperature coefficient(K ¹)	0.0019-0.0026

Physical Properties

Element	Value
Density(gcm ³)	2.67

Thermal Properties

Element	Value
Thermal conductivity(W m ¹ K ¹)	135-160@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ¹)	23.5@20-100°C