

Aluminum/Magnesium/Silicon Alloy Rod (Al99/Mg0.5/Si0.5)

Aluminum/magnesium/silicon alloy rod (Al99/Mg0.5/Si0.5) offers moderate strength, excellent corrosion resistance, and machinability for aerospace supports, marine hardware, and automotive structures. **SKU:** 1000021426-group

Product Code: AL18-RD-000110

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	16
Modulus of elasticity(GPa)	69.5
Tensile strength(MPa)	90-300

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	3.2
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	655
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	960@23°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	209@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	23.4@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	2.7