Aluminum-Magnesium-Silicon Foil/Sheet (Al98-Mg1-Si0.6)

Aluminum/magnesium/silicon alloy foil (Al98/Mg1/Si0.6) is a lightweight, precipitation-hardened foil for aerospace thermal layers, EMI shielding, and advanced battery packaging. **SKU:** 1000020268-group
Product Code: AL03-FL-000100

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	10-100
Elongation at break(%)	20
Modulus of elasticity(GPa)	70
Izod impact strength(J m?¹)	27-34
Shear strength(MPa)	160-200
Tensile strength(MPa)	150-430

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	3.4-3.8
Temperature coefficient(K?¹)	0.003

Physical Properties

Element	Value
Density(gcm?³)	2.69

Thermal Properties

Element	Value
Specific heat(J K?¹ kg?¹)	904@23°C
Thermal conductivity(W m?¹ K?¹)	180-193@23°C
Coefficient of thermal expansion(x10?? K?¹)	23@20-100°C