Aluminum-Magnesium Disk (Al97-Mg3)

Aluminum/magnesium alloy disk (Al97/Mg3) combines low density, strength, and corrosion resistance for precision disks used in data storage substrates, optical mounts, and lightweight marine components. **SKU:** 1000007284-group
Product Code: AL01-FL-000160

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(x10?? K?¹)	23.5@20-100°C