Iron-Nickel Foil (Light Tight) (Fe52-Ni48)

Iron nickel alloy foil (light tight) (Fe52/Ni48) provides low thermal expansion and complete optical blocking for precision optical and electronic assemblies. **SKU:** 1000004138-group
Product Code: FF01-FL-000100

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	30
Modulus of elasticity(GPa)	248
Tensile strength(MPa)	450-550

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	49
Temperature coefficient(K?¹)	-

Thermal Properties

Element	Value
Maximum use temperature in air(C)	450
Melting point(C)	1450
Specific heat(J K?¹ kg?¹)	502@23°C
Thermal conductivity(W m?¹ K?¹)	16.7@23°C
Coefficient of thermal expansion(x10?? K?¹)	8.5@20-100°C

Physical Properties

Element	Value
Density(gcm?³)	8.2