

Iron/Nickel Alloy Foil (Light Tight) (Fe52/Ni48)

Formula: Fe52/Ni48

Temper: Annealed

Thickness: 0.75mm

Length 1: 100mm

Length 2: 100mm

UOM Code: 032-341-36

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($\text{J K}^{-1} \text{kg}^{-1}$)	502@23°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	16.7@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	8.5@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 8.2