

Iron/Nickel Alloy Foil (Fe58/Ni42)

Formula: Fe58/Ni42

Temper: Annealed

Thickness: 3.2mm

Length 1: 100mm

Length 2: 100mm

UOM Code: 208-353-56

SKU: 1000084988-group

Product Code: FE13-SH-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	30
Modulus of elasticity(GPa)	21.5
Tensile strength(MPa)	566

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	68
Temperature coefficient(K^{-1})	-

Magnetic Properties

Element	Value
Curie temperature(C)	380

Thermal Properties

Element	Value
Melting point(C)	1450
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	502@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	4.8@30-100°C

Physical Properties

Element	Value
---------	-------

Density(gcm ³)	8.11
-----------------------------	------