

Nickel/Iron Alloy Tube (Ni52/Fe48)

Formula: Ni52/Fe48

Outside Diameter: 10mm

Wall Thickness: 0.3mm

Inside Diameter: 9.4mm

Length: 1000mm

UOM Code: 050-032-44

SKU: 1000007129-group

Product Code: NI19-TB-000160

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	13
Modulus of elasticity(GPa)	160
Tensile strength(MPa)	147

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	45
Temperature coefficient(K^{-1})	0.0034

Thermal Properties

Element	Value
Melting point(C)	1450
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	450@23
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

Physical Properties

Element	Value
Density(gcm^{-3})	8.4