

Copper/Nickel Alloy Foil (Cu70/Ni30)

Formula: Cu70/Ni30

Thickness: 1.6mm

Length 1: 100mm

Length 2: 100mm

UOM Code: 867-650-39

SKU: 1000066112-group

Product Code: CU13-FL-000100

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	45
Tensile strength(MPa)	410-420

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	37.4
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	1171
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	377@23°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	29.4
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	16.2@20-300°C

Physical Properties

Element	Value
Density(gcm^{-3})	8.94