

Gold/Nickel Alloy Foil (Light Tight) (Au82/Ni18)

Formula: Au82/Ni18

Temper: As Rolled

Thickness: 0.05mm

Length 1: 25mm

Length 2: 25mm

UOM Code: 001-119-57

SKU: 1000000146-group

Product Code: AU05-FL-000120

Material Properties for Precious Metals

Mechanical Properties

Element	Value
Elongation at break(%)	13
Modulus of elasticity(GPa)	112
Tensile strength(MPa)	616

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	15.5
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	955
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	49@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	14@20-700°C

Physical Properties

Element	Value
Density(gcm^{-3})	15.8