

Gold/Nickel Alloy Spooled Wire (Au82/Ni18)

Formula: Au82/Ni18

Product Shape: Spooled

Diameter: 0.025mm

Length: 0.5m

Temper: Annealed

UOM Code: 016-496-62

SKU: 1000002018-group

Product Code: AU05-WR-000125

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