

Platinum/Iridium Alloy Spooled Wire (Pt90/Ir10)

Formula: Pt90/Ir10

Product Shape: Spooled

Diameter: 0.075mm

Length: 20m

Temper: As Drawn

UOM Code: 006-493-24

SKU: 1000000852-group

Product Code: PT02-WR-000115

Material Properties for Precious Metals

Mechanical Properties

Element	Value
Hardness - Brinell	130-190
Elongation at break(%)	25
Tensile strength(MPa)	380-620

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	25
Temperature coefficient(K^{-1})	0.0013

Thermal Properties

Element	Value
Melting point(C)	1800
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	31@23
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	31@23C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	8.7@20-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	21.56