

# Platinum/Iridium Alloy Tube (Pt90/Ir10)

**Formula:** Pt90/Ir10

**Outside Diameter:** 3mm

**Wall Thickness:** 0.1mm

**Inside Diameter:** 2.8mm

**Length:** 25mm

**Temper:** As Drawn

**UOM Code:** 067-563-63

**SKU:** 1000009419-group

**Product Code:** PT02-TB-000300

## 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( $\mu\text{Ohmcm}$ )	25
Temperature coefficient( $\text{K}^{-1}$ )	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
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Density( gcm<sup>3</sup> ) 21.56