

# Platinum/Rhodium Alloy Tube (Pt90/Rh10)

**Formula:** Pt90/Rh10

**Outside Diameter:** 3.18mm

**Wall Thickness:** 0.125mm

**Inside Diameter:** 2.93mm

**Length:** 50mm

**Temper:** As Drawn

**UOM Code:** 004-039-62

**SKU:** 1000000516-group

**Product Code:** PT01-TB-000140

## Material Properties for Precious Metals

### Mechanical Properties

Element	Value
Hardness - Brinell	90-165
Elongation at break( % )	35
Tensile strength( MPa )	320-620

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	18.4-19.2
Temperature coefficient( $\text{K}^{-1}$ )	0.0017

### Thermal Properties

Element	Value
Melting point( C )	1830-1855
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	38@23°C

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	19.97