PTFE-Insulated Platinum-Iridium Wire (Pt90-Ir10)

PTFE?insulated Pt90/Ir10 wire delivers noble?alloy biocompatibility, corrosion resistance, mechanical durability, and PTFE dielectric reliability for implantable medical leads, satellite instrumentation, corrosion?proof connectors, and research into sterilisation?resistant insulation systems and high?frequency noble?metal conduction. **SKU:** 1000082697-group
Product Code: PT02-SW-000125

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(W m?¹ K?¹)	31@23
Thermal conductivity(W m?¹ K?¹)	31@23C
Coefficient of thermal expansion(x10?? K?¹)	8.7@20-100°C

Physical Properties

Element	Value
Density(gcm?³)	21.56