

Prince & Izant Company

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Pt90/Ir10

TECHNICAL DATA

NOMINAL COMPOSITION	Platinum	90.0% ± 1.0
	Iridium	10.0% ± 0.5
	Total Impurities	0.2% max.
	Total Platinum Group (Pd, Rh, Os, Ru), Au	0.1% max.
	Total Other Impurities (Including those listed below)	0.1% max.
	Lead	0.01% max.
	Antimony	0.01% max.
	Bismuth	0.01% max.
	Tin	0.01% max.
	Arsenic	0.01% max.
	Cadmium	0.01% max.
	Zinc	0.01% max.
	Iron	0.01% max.
	Mercury	0.01% max.
	Nickel	0.007% max.
Other elements (each)	0.02% max.	
PHYSICAL PROPERTIES	Color	Silver
	Melting Point °F (°C)	3255 (1790)
	Density (g/cm³)	21.56
	Electrical Resistivity (μΩ*cm @ 0°C)	
	Fully Annealed:	24.9
	Tensile Strength @ 0.010" diam. (KSI)	
	Work hardened:	140 – 160
	Fully Annealed:	50 – 60
	Elongation @ 0.010" diam. (%)	
	Work hardened:	<2
Fully Annealed:	>10	
Temp. Coeff. Of Resistance (0-100°C)		
Work Hardened:	0.0012	
Fully Annealed:	0.0013	
USES	Pt90/Ir10 is typically utilized for in-vivo applications such as marker bands, feedthrough pins and micro-coil components.	
SPECIFICATIONS	Pt90/Ir10 alloy conforms to: ASTM B684 / B684M – 22	
AVAILABLE FORMS	Wire, rod, strip, seamless tubing, machined components.	

NOTE:

DISCLAIMER

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