

Prince & Izant Company

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Pt90/Ir10

TECHNICAL DATA

	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.
NOMINAL COMPOSITION	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	0.015% max.
	Other elements (each)	0.02% max.
		Color
	Melting Point	3272°F (1800°C)
	Density (g/cm³)	21.53
	Electrical Resistivity (Ω/cm² @ 0°C)	
	Hard:	154
	Fully Annealed:	150
PHYSICAL PROPERTIES	Tensile Strength @ 0.010" diam. (KSI)	
	Hard:	130
	Fully Annealed:	55
	Elongation @ 0.010" diam. (%)	
	Hard:	2%
	Fully Annealed:	24%
	Temp. Coeff. Of Resistance (0-100°C)	
	Hard:	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 -16	
AVAILABLE FORMS	Wire, rod, strip, seamless tubing, machined components, engineered preforms and specialty preforms per customer specification.	

**SAFETY
INFORMATION**

The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1, "Safety in Welding and Cutting."

Individuals requiring further information and Engineering Specification Documents may wish to contact the Engineering Society for Advanced Mobility, Land Sea Air and Space, The Society of Automotive Engineers <http://www.sae.org/> (SAE AMS) or The American Welding Society (AWS) <http://aws.org/>

NOTE:

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