

Prince & Izant Company

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Pt90/Ni10

TECHNICAL DATA

NOMINAL COMPOSITION	Platinum	90.0% ± 1.0
	Nickel	10.0% ± 1.0
	<u>Vacuum Grade Trace Elements</u>	
	Cadmium	0.001% max.
	Zinc	0.001% max.
	Phosphorus	0.002% max.
	Lead	0.002% max.
	Carbon	0.005% max.
	Other volatile elements each*	0.002% max.
	Volatile elements total	0.010% max.
	Total non-volatile elements (Grade 1)	0.01% max.
	Total non-volatile elements (Grade 2)	0.05% max.
	PHYSICAL PROPERTIES	Color
Melting Point °F (°C)		3000 (1650)
Density (g/cm³)		18.8
Electrical Resistivity (μΩ*cm)		
Fully Annealed:		29.8
Tensile Strength (KSI)		
Work Hardened:		200 – 240
Stress Relieved:		180 – 200
Fully Annealed:		110 – 130
Elongation (%)		
As Drawn:		<2
Stress Relieved:		>2
Fully Annealed:		>20
Temp. Coeff. Of Resistance (0-100°C)		
	Work Hardened:	0.0013
	Fully Annealed:	0.0014

USES Pt90/Ni10 is typically used as guidewires.

SPECIFICATIONS Pt90/Ni10 alloy conforms to: N/A

AVAILABLE FORMS Wire, rod.

NOTE:

DISCLAIMER

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