

## Prince & Izant Company

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## Pt80/Rh20

### TECHNICAL DATA

	<b>Platinum</b>	80.0% ± 1.0
	<b>Rhodium</b>	20.0% ± 1.0
	<b>Total Impurities</b>	0.2% max.
	<b>Total Platinum Group (Pd, Ir, Os, Ru), Au</b>	0.1% max.
	<b>Total Other Impurities (Including those listed below)</b>	0.1% max.
<b>NOMINAL COMPOSITION</b>	<b>Lead</b>	0.01% max.
	<b>Antimony</b>	0.01% max.
	<b>Bismuth</b>	0.01% max.
	<b>Tin</b>	0.01% max.
	<b>Arsenic</b>	0.01% max.
	<b>Cadmium</b>	0.01% max.
	<b>Zinc</b>	0.01% max.
	<b>Iron</b>	0.015% max.
	<b>Other elements (each)</b>	0.02% max.
<b>PHYSICAL PROPERTIES</b>	<b>Color</b>	Silver
	<b>Melting Point</b>	3398°F (1870°C)
	<b>Density (g/cm<sup>3</sup>)</b>	18.65
	<b>Electrical Resistivity (Ω/cm<sup>2</sup> @ 0°C)</b>	
	<b>Hard:</b>	124
	<b>Fully Annealed:</b>	116
	<b>Tensile Strength @ 0.010" diam. (KSI)</b>	
	<b>Hard:</b>	140
	<b>Fully Annealed:</b>	72
	<b>Elongation @ 0.010" diam. (%)</b>	
	<b>Hard:</b>	1.5%
	<b>Fully Annealed:</b>	32%
<b>Temp. Coeff. Of Resistance (0-100°C)</b>		
<b>Hard:</b>	0.0013	
<b>Fully Annealed:</b>	0.0014	
<b>USES</b>	Pt80/Rh20 is typically utilized for in-vivo applications such as feedthrough pins and micro-coil components.	
<b>SPECIFICATIONS</b>	Pt80/Rh20 alloy conforms to: N/A	
<b>AVAILABLE FORMS</b>	Wire, rod, 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."

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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:****DISCLAIMER**

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