Prince & Izant Company

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SILVERBRAZE 65 (BAg-9) TECHNICAL DATA

NOMINAL COMPOSITION	Silver Copper Zinc Other Elements Total	65.0% ± 1.0 20.0% ± 1.0 15.0% ± 2.0 0.15%
PHYSICAL PROPERTIES	Color Solidus Liquidus Recommended Brazing Temperature Density (Troy oz/in ³) Specific Gravity Electrical Conductivity (%IACS) Electrical Resistivity (Microhm-cm)	White 1240°F (671°C) 1325°F (718°C) 1375-1425°F (746-773°C) 5.06 9.60 21.3 8.10
USES	Silver Braze 65 is commonly used in the silver-smith trade and other applications where their silver-white color is advantageous in color matching, and the corrosion resistance of high-silver, low-zinc alloy is desired. Silver Braze 65 is used in combination to perform sequential or step brazing of adjacent joints, to avoid re-melting the previously made joints. Because of their zinc content, Silver Braze 65 can be used to join iron and nickel-base alloys.	
BRAZING CHARACTERISTICS	Silver Braze 65 is an intermediate silver brazing filler metal with a slight tendency to liquate (separation into low and high melting constituents) if heated slowly through its melting ranges. Silver Braze 65 is used for brazing silver base alloys, the re-melt temperature is raised by solution of silver in the brazing alloy. Conversely, the re-melt temperature of this brazing alloy is lowered by solution of copper when brazing copper base alloys. Flux is used with this alloy.	
PROPERTIES OF BRAZED JOINTS	The properties of a brazed joint are dependent upon numerous factors including base metal properties, joint design, metallurgical interaction between the base metal and the filler metal. The results listed below were generated from brazed butt joints which were tested under standard room temperature conditions:	
	Copper Tensile Streng Brass 25,000-30 Nickel-Silver 35,000-45 55,000-60 55,000-60	0,000 21-27 5,000 13-19
SPECIFICATIONS	Silver Braze 65 conforms to: Unified Numbering System (UNS) P07650 and American Welding Society (AWS) A5.8/A5.8M BAg-9	
AVAILABLE FORMS	Wire, strip, engineered preforms, specialty preforms per customer specification, powder and paste.	

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://www.sae.org/

NOTE:

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