Prince & Izant Company

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CUSTOMER FOCUSED, SOLUTION DRIVEN.

SILVERBRAZE 40Sn2 (BAg-28) TECHNICAL DATA

NOMINAL COMPOSITION	Silver Copper Zinc Tin Other Elements Total	40.0% ± 1.0 30.0% ± 1.0 28.0% ± 2.0 2.0% ± 0.5 0.15% Max
PHYSICAL PROPERTIES	Color Solidus Liquidus Recommended Brazing Temperature Density (Troy oz/in ³) Specific Gravity Electrical Conductivity (%IACS) Electrical Resistivity (Microhm-cm)	Pale Yellow 1200°F (648°C) 1310°F (710°C) 1360-1410°F (737-765°C) 4.76 9.03 18.0 9.60
USES	Silver Braze 40Sn2 is a good general purpose, cadmium-free intermediate temperature brazing filler metal for joining steels, copper, copper alloys and nickel alloys.	
BRAZING CHARACTERISTICS	Silver Braze 40Sn2 is a free-flowing, intermediate filler metal and as such is a good substitute for cadmium-bearing filler metals with similar silver contents. The materials is best suited for narrow gap situations (0.001"-0.005" radial joint clearance). Flux should be used with Silver Braze 40Sn2.	
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.	
	Tensile Strength (It	
	Copper 28,000-30,000 Brass 35,000-45,000	
	Low Carbon Steel 55,000-45,000	
	304 Stainless Steel 80,000-85,000	
SPECIFICATIONS	Silver Braze 40Sn2 alloy conforms to: Unified Numbering System (UNS) P07401 and American Welding Society (AWS) A5.8/A5.8M BAg-28	
AVAILABLE FORMS	Wire, strip, engineered preforms, specialty preforms per customer specification, powder and paste.	
SAFETY INFORMATION	The operation and maintenance of brazing equipment or facility should conform to the provisions of 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 <u>http://www.sae.org/</u> (SAE AMS) or The American Welding Society (AWS) <u>http://aws.org/</u>

NOTE:

DISCLAIMER

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