## **Prince & Izant Company**

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## SILVERBRAZE 45T (BAg-36) TECHNICAL DATA

NOMINAL COMPOSITION	Silver Copper Zinc Tin Other Elements Total	45.0% ± 1.0 27.0% ± 1.0 25.0% ± 2.0 3.0% ± 0.5 0.15% Max
PHYSICAL PROPERTIES	Color Solidus Liquidus Recommended Brazing Temperature Density (Troy oz/in³) Specific Gravity Electrical Conductivity (%IACS) Electrical Resistivity (Microhm-cm)	Pale Yellow 1195°F (646°C) 1251°F (677°C) 1301-1351°F (705-732°C) 4.85 9.20 18.0 9.60
USES	Silver Braze 45T is a general purpose, low temperature filler metal used in cadmium-free brazing applications. It offers an excellent compromise between low melting point and moderate silver content. For improved corrosion resistance in stainless steel joints, use an alloy that contains a small amount of nickel.	
BRAZING CHARACTERISTICS	Silver Braze 45T is a free-flowing, low temperature filler metal commonly used as a replacement of cadmium-bearing filler metals of similar silver content. This alloy is best suited for narrow gap applications (0.001in. – 0.005in radial joint clearance). Flux should be used with this alloy.	
PROPERTIES OF BRAZED JOINTS	base metal properties, joint design, met	sted below were generated from brazed ndard room temperature conditions.  (Ibs/in²) Elongation (%, 2" gage length)  00 25-35 00 15-30 00 8-13
SPECIFICATIONS	Silver Braze 45T alloy conforms to: Unified Numbering System (UNS) P07454 and American Welding Society (AWS) A5.8/A5.8M BAg-36	
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 <a href="http://www.sae.org/">http://www.sae.org/</a> (SAE AMS) or The American Welding Society (AWS) <a href="http://aws.org/">http://aws.org/</a>

## NOTE:

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