

Prince & Izant Company

12999 Plaza Drive
Cleveland, Ohio 44130
T: 216-362-7000
F: 216-362-7456
princeizant.com



SILVERBRAZE 56 (BAg-7) TECHNICAL DATA

NOMINAL COMPOSITION	Silver	56.0% ± 1.0
	Copper	22.0% ± 1.0
	Zinc	17.0% ± 2.0
	Tin	5.0% ± 0.5
	Other Elements Total	0.15% Max
PHYSICAL PROPERTIES	Color	White
	Solidus	1145°F (618°C)
	Liquidus	1205°F (651°C)
	Recommended Brazing Temperature	1255-1305°F (679-707°C)
	Density (Troy oz/in³)	4.96
	Specific Gravity	9.42
	Electrical Conductivity (%IACS)	8.32
Electrical Resistivity (Microhm-cm)	20.8	
USES	Silver Braze 56 is a silver-based brazing alloy used for ferrous and non-ferrous alloys in joints requiring a low temperature, cadmium-free alloy, as in food handling equipment.	
BRAZING CHARACTERISTICS	Silver Braze 56 is a low temperature, free-flowing brazing filler metal with a narrow melting range. Due to the fluidity of this alloy tight joint clearances of .001 - .004" are recommended to ensure the molten metal is retained within the mating surfaces.	
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.	
		<u>Tensile Strength (lbs/in²)</u>
	Low Carbon Steel	40,000-50,000
	Copper	25,000-30,000
Brass	30,000-40,000	
SPECIFICATIONS	Silver Braze 56 conforms to: Unified Numbering System (UNS) P07563, American Welding Society (AWS) A5.8/A5.8M BAg-7 and Society of Automotive Engineers (SAE) AMS 4763	
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://aws.org/>

NOTE:

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