

## Bellman-Melcor

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## #A-56T (BAg-7)

### TECHNICAL DATA

<b>NOMINAL COMPOSITION</b>	<b>Silver</b>	56.0% ± 1.0
	<b>Copper</b>	22.0% ± 1.0
	<b>Zinc</b>	17.0% ± 2.0
	<b>Tin</b>	5.0% ± 0.5
	<b>Other Elements Total</b>	0.15% Max
<b>PHYSICAL PROPERTIES</b>	<b>Color</b>	White
	<b>Solidus</b>	1145°F (618°C)
	<b>Liquidus</b>	1205°F (651°C)
	<b>Recommended Brazing Temperature</b>	1255-1305°F (679-707°C)
	<b>Density (Troy oz/in<sup>3</sup>)</b>	4.96
	<b>Specific Gravity</b>	9.42
	<b>Electrical Conductivity (%IACS)</b>	8.32
<b>Electrical Resistivity (Microhm-cm)</b>	20.8	
<b>USES</b>	#A-56T 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.	
<b>BRAZING CHARACTERISTICS</b>	#A-56T is a low temperature, free-flowing brazing filler metal with a slight tendency to liquate (separation into low and high melting constituents) if heated slowly through its melting range.	
<b>PROPERTIES OF BRAZED JOINTS</b>	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.	
		<b><u>Tensile Strength (lbs/in<sup>2</sup>)</u></b>
	Low Carbon Steel	40,000-50,000
	Copper	25,000-30,000
	Brass	30,000-40,000
<b>SPECIFICATIONS</b>	#A-56T 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	
<b>AVAILABLE FORMS</b>	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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