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#A-45 (BAg-5)

TECHNICAL DATA

NOMINAL COMPOSITION	**Silver**	45.0% ± 1.0
	Copper	30.0% ± 1.0
	Zinc	25.0% ± 2.0
	Other	0.15% Max
PHYSICAL PROPERTIES	**Color**	Yellow White
	Solidus	1225°F (662°C)
	Liquidus	1370°F (743°C)
	Recommended Brazing Temperature	1420-1470°F (771-798°C)
	Density (Troy oz/in^3)	4.80
	Specific Gravity	9.11
	Electrical Conductivity (%IACS)	19.0
	Electrical Resistivity (Microhm-cm)	9.08

USES

#A-45 has been used for brazing of tubular assemblies in the ship construction industry. Other applications may include brazing of musical brass instruments, brass lamps, aircraft engine oil coolers. #A-45 is a general purpose, brazing filler metal for use where cadmium free filler metal is required.

BRAZING CHARACTERISTICS

#A-45 is an intermediate temperature cadmium free silver brazing filler metal with enough melting range (145°F/63°C) to properly braze joints with the range of fits encountered in commercial tubing and fittings. It has a slight tendency to liquate (separation into high and low melting constituents) if heated slowly through its melting range.

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.

SPECIFICATIONS

#A-45 alloy conforms to: Unified Numbering System (UNS) P07453 and American Welding Society (AWS) A5.8/A5.8M BAg-5

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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