Prince & Izant Company

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SILVERBRAZE 30 (BAg-20) TECHNICAL DATA

NOMINAL COMPOSITION	Silver Copper Zinc Other Elements Total	30.0% ± 38.0% ± 32.0% ± 0.15% N	1.0 1.0 1.0 Max
PHYSICAL PROPERTIES	Color Solidus Liquidus Recommended Brazing Tempe Density (Troy oz/in ³) Specific Gravity Electrical Conductivity (%IACS Electrical Resistivity (Microhm	Light Ye 1250°F 1410°F 4460-15 4.66 8.84 5) 24.4 -cm) 6.85	llow (676°C) (7765°C) 10°F (793-821°C)
USES	Silver Braze 30 is a general purpose, intermediate temperature brazing alloy for use on copper, brass, nickel-silver, bronze, steel and other nonferrous alloys melting above 1450F (765C). Uses include the brazing of nickel-silver hollow knife handles and electrical equipment. It is particularly adaptable to metal bath dip brazing of fine wires for radio, small transformer and electronics assembles because its flow point matches the fluid temperature of borax. Borax is used as a metal bath flux cover because it is less corrosive to ceramic pot linings.		
BRAZING CHARACTERISTICS	Silver Braze 30 is an intermediate temperature silver brazing alloy with a fairly long (160F/70C) melting range. This long melting range is helpful when wide gap joints are brazed and is useful in producing large joint fillets to reduce the notch effect on stressed assembles. Where the higher brazing temperature and characteristics of this alloy are permissible, the lower silver content affords a saving. Flus should be used with this alloy.		
PROPERTIES OF BRAZED JOINTS	The properties of a brazed join metallurgical interaction betwee listed below were generated f standard room temperature co <u>Tensile</u> Copper 30 Brass 35 Nickel-Silver 35	nt are dependent up een the base metal a rom brazed butt join onditions. <u>Strength (Ibs/in²)</u> 0,000-35,000 5,000-45,000 5,000-40,000	oon the base metal, joint design, and filler metal. The results ts which were tested under <u>Elongation (%, 2" gage length)</u> 15-25 16-31 7-17
SPECIFICATIONS	Silver Braze 30 alloy conforms to: Unified Numbering System (UNS) P07301 and American Welding Society (AWS) A5.8/A5.8M BAg-20		
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 <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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