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GOLD BRAZE 3034 (BAu-5)

TECHNICAL DATA

NOMINAL COMPOSITION	Gold Nickel Palladium Other Elements, Total	30% ± 0.5 36% ± 0.5 34% ± 0.5 0.15% Max
PHYSICAL PROPERTIES	Solidus Liquidus Recommended Brazing Temperature Density (Troy oz/in³) Yield Strength (MPa) Tensile Strength (MPa) Elongation (%) Thermal Conductivity (W/(m•K)) CTE (x10-6/°C) Electrical Conductivity (x10-9 ohm•m)	2075°F (1135°C) 2130°F (1165°C) 2180-2230°F (1193-1221°C) 6.12 655 827 28 17 269 337
USES	Gold Braze 3034 can be used on any of the common ferrous and non-ferrous alloys. This alloy exhibits good wetting characteristics on metallized ceramics. Typical applications include brazing of electron tubes, vacuum tubes, wave guides and electronic industry.	
BRAZING CHARACTERISTICS	Gold Braze 3034 is generally used in reducing, vacuum, or inert atmosphere. The composition of the alloy allows for use in applications where braze filler metals low in volatile constituents are required. Due to its narrow plastic range, Gold Braze 3034 exhibits free flowing characteristics	
PROPERTIES OF BRAZED JOINTS	The properties of a brazed joint are dependent upon numerous factors including base metal properties, joint design and brazing technique. For controlled atmosphere brazing or vacuum brazing the recommended radial joint clearance for gold base alloys fall within 0.000in – 0.002in (0.00mm-0.05mm) range.	
SPECIFICATIONS	Gold Braze 3034 alloy conforms to: Unified Numbering System (UNS) P00300, American Welding Society (AWS) A5.8/A5.8M BAu-5 and Society of Automotive Engineers (SAE)/AMS 4785	
AVAILABLE FORMS	Wire, foil, paste, powder, and preforms.	

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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