

WESGO

Data Sheet



Description:

High-purity silver, palladium and gallium alloy for vacuum brazing. Nominal composition by weight: **82% Ag**, **9% Pd** and **9% Ga**

Prime Features:

- Ductile, corrosion resistant.
- Joins Ti to Ti and Ti to Stainless steel

Typical Applications:

Dissimilar metallic interface fittings

Suggested base materials:

• Kovar, Copper, Nickel, Carbon/low alloy & Tool/high speed steel, Titianium, Stainless steel, Refractory, Tungsten carbide

Physical Properties*

Liquidus Temperature	880 °C
	1616 °F
Solidus Temperature	845 °C
	I533 °F
Coefficient of Thermal Expansion (CTE)	
Thermal Conductivity (Calculated)	55.6 W/m·K
	31.7 BTU/ft·h· °F
Density	10.3 Mg/m ³
	0.372 lb/in ³
Yield Strength (0.2% offset)	118 MPa
	17.1 x 10 ³ lb/in ²
Tensile Strength	286 MPa
	4.1 x 10 ³ lb/in ²
Elongation (2in/50mm gage section)	41%
Electrical Resistivity	I36 x I0-⁰ ohm m
Electrical Conductivity	7.4 x 10⁰/ohm·m
Vapor Pressure (Calculated)	
Recommended Brazing Temperatures	900 – 925 °C
Recommended Brazing Atmospheres	10⁻⁵ mm Hg or inert gas

* Please note that all values quoted are based on test pieces and may vary according to component design. These values are not guaranteed in any way and should only be treated as indicative values. They should be used for guidance only and for no other purpose whatsoever.

Impurity Limits

less than 0.001%

less than 0.001%

less than 0.002%

less than 0.002%

less than 0.01%

Zn

Cd

Рb

Ρ

С

Supplied As	s:
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- Foil
- Wire
- Powder
- Extrudable paste
- Preforms

The determination as to the adaptability of any Wesgo materials to the specific needs of the Buyer is solely the Buyer's prerogative and responsibility. All technical information, data and recommendations are based on tests and accumulated experience data, which Wesgo believed to be reliable. However, the accuracy and completeness thereof are not guaranteed.

All other metallic impurities having a vapor pressure

higher than 10⁻⁷ mm Hg at 500 °C are limited to

0.002% each. Impurities having a vapor pressure

lower than 10⁻⁷ mm Hg at 500 °C are limited to a

total of 0.075%. (This applies to all forms except

powder and extrudable paste.)



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