

Data Sheet

Silver (BAg-0)

Description:

High conductivity silver brazing filler.

Nominal composition **99.99% Ag**.

Prime Features:

- Wets most metals. Very ductile. Will not oxidize
- Suitable for brazing under Vacuum, Hydrogen, inert atmosphere and in air with flux

Typical Applications:

- Tooling for mining
- Heavy industrial equipment

Physical Properties*

Liquidus Temperature	960 °C
	1760 °F
Solidus Temperature	960 °C
	1760 °F
Coefficient of Thermal Expansion (CTE)	20.6 x 10 ⁻⁶ /C, for 20 – 500 °C
	11.45 x 10 ⁻⁶ /F, for 68 – 932 °F
Thermal Conductivity (Calculated)	418 W/m·K
	2902 BTU/ft·h· °F
Density	10.5 Mg/m ³
	0.379 lb/in ³
Yield Strength (0.2% offset)	54 MPa
	7.9 x 10 ³ lb/in ²
Tensile Strength	125 MPa
	18 x 10 ³ lb/in ²
Elongation (2in/50mm gage section)	
Electrical Resistivity	1770 x 10 ⁻⁹ ohm·m
Electrical Conductivity	1064 x 10 ⁶ /ohm·m
Vapor Pressure (Calculated)	
Recommended Brazing Temperatures	980 – 1010 °C
Recommended Brazing Atmospheres	10 ⁻⁵ mm Hg, H ₂ , 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

Zn	less than 0.001%
Cd	less than 0.001%
Pb	less than 0.002%
P	less than 0.002%
C	less than 0.01%

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.)

Supplied As:

- 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.