



# **Data Sheet**



#### Description:

High conductivity gold brazing filler.

Composition by weight is between: 99.990% and 99.999% Au, which represents the purest commercially available form of the metal.

#### Prime Features:

- Highly ductile, non-oxidizable. Wets most metals.
- Suitable for brazing under Vacuum, Hydrogen, inert atmosphere

## **Typical Applications:**

- Vacuum tubes
- Aerospace components

## **Physical Properties\***

10//00
1064 °C
1947 °F
1064 °C
1947 °F
14.2 x 10 <sup>-6</sup> /C, for 20 – 500 °C
17.9 x 10 <sup>-6</sup> /°F, for 68 – 932 °F
318 W/m·K
I84 BTU/ft⋅h・°F
19.3 Mg/m <sup>3</sup>
0.697 lb/in <sup>3</sup>
40 MPa
5.7 x 10 <sup>3</sup> lb/in <sup>2</sup>
105 MPa
15 x 10 <sup>3</sup> lb/in <sup>2</sup>
45%
23.5 x 10 <sup>-9</sup> ohm m
42.6 x 10 <sup>6</sup> /ohm⋅m
1075 – 1100  °C
10 <sup>-5</sup> mm Hg, H <sub>2</sub> , 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**

# Znless than 0.001%All other<br/>higher th<br/>0.002%Cdless than 0.001%0.002%Pbless than 0.002%lower th<br/>total of 0Cless than 0.01%powder

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.



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