WESGO

Data Sheet

Platinum

Description:

High conductivity platinum brazing filler.
Composition greater than **99.995%** pure by weight.

Prime Features:

- Brazes refractory metals for high temperature applications
- $\bullet \quad \hbox{Suitable for brazing under Vacuum, Hydrogen, inert atmosphere} \\$

Typical Applications:

Vacuum tubes

Physical Properties*

1769 °C
3216 °F
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3216 °F
9.1 x 10 ⁻⁶ /C, for 20 – 500 °C
5.06 x 10 ⁻⁶ /°F, for 68 – 932 °F
71.1 W/m·K
41.1 BTU/ft·h· °F
21.45 Mg/m³
0.774 lb/in ³
80 MPa
12 x 10 ³ lb/in ²
160 MPa
23.2 x 10 ³ lb/in ²
50%
106 x 10 ⁻⁹ ohm·m
9.43 x 10 ⁶ /ohm·m

^{*} 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%
РЬ	less than 0.002%
Р	less than 0.002%
С	less than 0.01%

All other metallic impurities having a vapor pressure higher than 10^{-7} mm Hg at $500\,^{\circ}$ C are limited to 0.002% each. Impurities having a vapor pressure lower than 10^{-7} mm Hg at $500\,^{\circ}$ 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.