Morgan Advanced Materials

WESGO

Data Sheet

Titanium

Description:

High conductivity titanium brazing filler.
Composition greater than **99.95%** pure by weight.

Prime Features:

- High temperature active brazing
- Suitable for brazing under Vacuum or inert atmosphere

Typical Applications:

- One step brazing ceramics

Physical Properties*

Liquidus Temperature	1670 °C
	3038 °F
Solidus Temperature	1670 °C
	3038 °F
Coefficient of Thermal Expansion (CTE)	
Thermal Conductivity (Calculated)	
Density	
Yield Strength (0.2% offset)	
Tensile Strength	
Elongation (2in/50mm gage section)	
Electrical Resistivity	
Electrical Conductivity	
Vapor Pressure (Calculated)	
Recommended Brazing Temperatures	
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

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
- 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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