

# WESGO

## Data Sheet



#### Description:

High-purity gold, nickel and palladium alloy for vacuum brazing. Nominal composition by weight: **30% Au**, **36% Ni** and **34% Pd** 

#### Prime features:

- High ductility
- High strength
- High oxidation resistance
- · Recommended for brazing super alloys and stainless steels
- Similar to Palniro 4 but lower brazing temperature

## **Physical Properties\***

## Typical applications:

- Aero-engines (OEM and repair)
- Aerospace fuel-line assemblies
- Vacuum tubes
- Wave guide and Klystron assemblies
- Power supply surge arrestors

1169 ℃ 2139 °F 1135 °C
1135 °C
1100 0
2075 °F
17.0 x 10⁻⁴/C, for 20 – 1000 °C
9.6 x 10 <sup>-6</sup> /°F, for 68 – 1832 °F
11.6 Mg/m³
0.419 lb/in <sup>3</sup>
655 MPa
95 x 10 <sup>3</sup> lb/in <sup>2</sup>
829 MPa
120 x 10 <sup>3</sup> lb/in <sup>2</sup>
28%
l62 x 10 <sup>-9</sup> ohm⋅m
XXX x 10 <sup>6</sup> /ohm·m
2 x 10 <sup>-6</sup> mm Hg @ 1000 °C, 1832 °F
2 x 10 <sup>-5</sup> mm Hg @ 1100 °C, 2012 °F
10⁻⁵ mm Hg, 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%
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 °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
- Flexibraze
- 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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