

**AUFHAUSER PaNi-6040** is a solid solution alloy with minimum melting point designed for vacuum brazing.

## APPLICATIONS

Applicable for stainless steel, nickel, Ni-super alloys, refractory metals.

## NOMINAL COMPOSITION, wt.%

Pd	Ni
60	40

Zn	Cd	Pb	P	C	Other volatile elements each*	Total non-volatile elements**
<0.001	<0.001	<0.002	<0.002	<0.010	<0.002	<0.075

\*) All other metallic impurities having a vapor pressure higher than  $10^{-7}$  torr at 500°C are limited to 0.002 wt.% each.

\*\*\*) Impurities having a vapor pressure lower than  $10^{-7}$  torr at 500°C are limited to a total of 0.075 wt.%. This applies to all forms except powder and extrudable paste.

## PHYSICAL PROPERTIES

<b>Solidus</b>	2260°F (1238°C)
<b>Liquidus</b>	2260°F (1238°C)
<b>Coefficient of Thermal Expansion (CTE)</b>	8.0 x 10 <sup>-6</sup> /°F, for 68 - 1832°F 15.0 x 10 <sup>-6</sup> /°C, for 20 - 1000°C
<b>Density</b>	10.4 g/cm <sup>3</sup> (0.375 lb/in <sup>3</sup> )
<b>Yield strength (0.2% offset)</b>	772 MPa (112 x 10 <sup>3</sup> lb/in <sup>2</sup> )
<b>Tensile strength</b>	979 MPa (142 x 10 <sup>3</sup> lb/in <sup>2</sup> )
<b>Elongation (2in/50mm gage section)</b>	23%
<b>Electrical resistivity</b>	111 x 10 <sup>-9</sup> ohm · m

## AVAILABLE FORMS

Foil, Wire  
Powder, Paste  
Preforms