



SilverAlloy BV-65

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AUFHAUSER SilverAlloy BV-65 is a special alloy (very low level of volatile impurities) for vacuum brazing.

APPLICATIONS

Brazing stainless steel, carbon steel, copper, nickel, Kovar, metallized ceramics, tungsten carbide in vacuum applications.

NOMINAL COMPOSITION, wt.%

Ag	Cu	Pd
65	20	15

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

Solidus (melting point)	1562°F (850°C)
Liquidus (flow point)	1652°F (900°C)
Recommended brazing atmospheres	10^{-5} mm Hg vacuum, H ₂ or inert gas
Thermal conductivity	98 W/m · K (57 BTU/ft · h · °F)
Density	10.3 g/cm ³ (0.372 lb/in ³)
Yield strength (0.2% offset)	379 MPa (55 x 10 ³ lb/in ²)
Tensile strength	448 MPa (65 x 10 ³ lb/in ²)
Elongation (2in/5mm gage section)	23%
Electrical resistivity	78 x 10 ⁻⁹ ohm · m
Electrical conductivity	13 x 10 ⁶ /ohm · m

AVAILABLE FORMS

Foil, Wire
Powder, Paste
Preforms