



## GoldAlloy BV-35

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### ◆ INTRODUCTION

Aufhauser **GoldAlloy BV-35** is a special alloy for **vacuum brazing**.

### ◆ APPLICATIONS & CHARACTERISTICS

GoldAlloy BV-35 is used on any ferrous and non-ferrous alloys. Provides good wetting on metallized ceramics, including molybdenum-manganese metallized. Good for Kovar alloys. Suitable in brazing ceramics to metals. Typical applications include vacuum and electronic tubes, automotive components.

GoldAlloy BV-35 is used in vacuum, inert or reducing atmosphere.

### ◆ CHEMICAL COMPOSITION (%)

Element	Vacuum Grade 1	Vacuum Grade 2
Au	35.0 ± 0.5	35.0 ± 0.5
Cu	Remainder	Remainder
Zn	0.001 max	0.002 max
Cd	0.001 max	0.002 max
Pb	0.002 max	0.002 max
P	0.002 max	0.002 max
C	0.005 max	0.005 max
Other volatile elements *	0.001 max	0.002 max
Total volatile elements	0.01 max	0.01 max
Total non-volatile elements	0.05 max	0.05 max



\*) Elements with a vapor pressure higher than  $10^{-7}$  torr at 932°F (500°C) such as Mg, Sb, K, Na, Li, Ti, S, Cs, Rb, Se, Te, Sr, and Ca

### ◆ PHYSICAL and MECHANICAL PROPERTIES

Liquidus temperature	1010°C (1850°F)
Solidus temperature	990°C (1814°F)
Brazing temperature range	1010 - 1066°C (1850 - 1950°F)
Density	11.01 g/cm³ (5.80 troy oz/in³)
Color	Red Brass
Tensile strength	328 MPa (47.6x10³ lb/in²)
Electrical resistivity, microohm-cm	8.62
Electrical conductivity, % IACS (International Annealed Copper Standard)	20.0

### ◆ SUPPLIED FORMS

- Foil, Wire, Strip
- Powder, Paste
- Preforms per customer specification

### Specifications:

AWS A5.8/A5.8M BVAu-9  
UNS P00354