

## GoldAlloy BV-ACS-60

### ◆ INTRODUCTION

Aufhauser **GoldAlloy BV-ACS-60** is a special alloy for **vacuum brazing**.

### ◆ APPLICATIONS & CHARACTERISTICS

GoldAlloy BV-ACS-60 is used on any ferrous and non-ferrous alloys. It has excellent vacuum properties along with high corrosion and oxidation resistance.

GoldAlloy BV-ACS-60 is used in vacuum, inert or reducing atmosphere.

### ◆ CHEMICAL COMPOSITION (%)

Element	Vacuum Grade 1	Vacuum Grade 2
Au	60.0 ± 0.5	60.0 ± 0.5
Ag	20.0 ± 0.5	20.0 ± 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	845°C (1553°F)
Solidus temperature	835°C (1535°F)
Brazing temperature range	845 - 901°C (1553 - 1653°F)
Density	14.1 g/cm <sup>3</sup> (7.42 troy oz/in <sup>3</sup> )
Color	Gold Red
Tensile strength	393 MPa (57.0x10 <sup>3</sup> lb/in <sup>2</sup> )
Electrical resistivity, microhm-cm	13.1
Electrical conductivity, % IACS (International Annealed Copper Standard)	13.2

### ◆ SUPPLIED FORMS

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