



SilverAlloy BV-60

Aufhauser
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◆ INTRODUCTION

Aufhauser **SilverAlloy BV-60** is a special alloy (very low level of impurities) for **vacuum brazing**.

◆ APPLICATIONS

Application is found in all types of moderate temperature low pressure systems, and in particular the electronic vacuum tube.

◆ CHEMICAL COMPOSITION (%)

Ag	Cu	Sn	Zn	Cd	Pb	P	C	Other volatile elements *	Volatile elements total (including Cd, Zn, Pb)	Total non-volatile elements
59.0 - 61.0	28 - 31	9.5 - 10.5	<0.002	<0.002	<0.002	<0.02	<0.005	<0.002	<0.01	<0.05

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

◆ PHYSICAL and MECHANICAL PROPERTIES

Flow point (Liquidus)	720°C (1328°F)
Melting point (Solidus)	600°C (1112°F)
Brazing temperature range	(718 - 843°C) (1325 - 1550°F)
Density	9.82 g/cm ³ (5.17 troy ounce/in ³)
Electrical resistivity, microhm.cm	24.1
Electrical conductivity (% IACS - International Annealed Copper Standard)	7.10

◆ PROPERTIES OF BRAZED JOINTS

For controlled atmosphere vacuum brazing the recommended radial joint clearance for silver base alloys is within 0.0015 - 0.002 in (0.038 - 0.051 mm) range.

◆ SUPPLIED FORMS

- Strip, Wire
- Powder, Paste
- Preforms

Specifications: AWS BVAg-18 (Grade 1 & 2, ISO 9002)

ASME Boiler & Pressure Vessel Code, Sec II-C, SFA-5.8
Society of Automotive Engineers (SAE) AMS 4773

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