

SilverAlloy A-100

◆ INTRODUCTION

Aufhauser **SilverAlloy A-100** is a special brazing alloy.

◆ APPLICATIONS

When strong, robust, integral joints are required:

- Aeronautical manufacturing and repair
- Aeronautical joining of fuel-lines
- Electrical vacuum tubes
- Linear-beam vacuum tubes (klystrons) and electrical wave guides
- Power supply surge protectors
- Automotive parts

◆ CHEMICAL COMPOSITION (%)

Ag
99.95



◆ PHYSICAL and MECHANICAL PROPERTIES

Liquidus temperature	961.9°C (1763.5°F)
Solidus temperature	961.9°C (1763.5°F)
Recommended brazing temperatures	980-1010°C (1830-1885°F)
Density	10.49 g/cm ³ (5.527 TOz/in ³)
Thermal expansion coefficient @ RT-500°C (RT-932°F)	20.61x10 ⁻⁶ /°C (11.45x10 ⁻⁶ /°F)
Thermal conductivity	418.68 W m ⁻¹ K ⁻¹ (2902 BTU h ⁻¹ ft ⁻¹ °F ⁻¹)
Young's modulus	71 GPa (10.3x10 ⁶ psi)
Tensile strength	125 MPa (18,000 psi)
Yield strength	54 MPa (7,900 psi)

◆ SPECIFICATIONS MEET OR EXCEED

- AWS A5.8 BVAg-0