

Cadmium Free SilverAlloy A-50

◆ INTRODUCTION

Aufhauser SilverAlloy A-50 is widely used for brazing in the electrical industry, steam turbine blading and heavily galvanized or tinned steel, and in the dairy and food industries where the use of cadmium-containing filler metals is prohibited. SilverAlloy A-50 has a broad melting range making it a good choice for filling wide joint clearances or forming large fillets. For best results use with Ultra Flux.

◆ APPLICATIONS

SilverAlloy A-50 is often used for electrical applications and in joining dissimilar metals.

◆ CHEMICAL COMPOSITION

Silver	Copper	Zinc
49.0-51.0	33.0-35.00	14.0-18.0

◆ PHYSICAL and MECHANICAL PROPERTIES

	Solidus	1270 °F (688 °C)
	Liquidus	1425 °F (774 °C)
	Brazing Range	1425-1600 °F (774-871 °C)
	Specific Gravity	9.34
	Density	4.92 TO/Cu.In.
	Electrical Conductivity	25.5 %IACS
	Electrical Resistivity	6.76 Microhm-cm
	Color, as brazed	Yellow White



◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BAg-6
- ASME SFA5.8 BAg-6
- UNS P07503
- EN 17672 Ag 250

◆ AVAILABLE FORMS

- Powder/Paste
- Wire, Rods, Foil
- Specialty preforms per customer specifications

◆ STANDARD ROD SIZES AND DIAMETERS

- Diameters: 1/32", 3/64", 1/16", 3/32", 1/8"
- Sizes: 1, 3, 5, or 50 troy ounces
- Lengths: 18, 20, or 36 inches

◆ PROPERTIES OF BRAZED JOINTS

Generally, the joint strength using SilverAlloy A-50 will surpass the strengths of the base metals. Strength is a function of the base metals being joined, type of joint, design of joint, joint clearances and brazing procedures.