

◆ **INTRODUCTION**

Aufhauser SilverAlloy A-45T is a low temperature, cadmium free, filler metal suitable for brazing ferrous and non-ferrous base metals. The lower brazing temperature makes it a useful replacement for several of the cadmium-bearing classifications.

◆ **APPLICATIONS**

SilverAlloy A-45T narrow melt range (75°F) makes it suitable for manual or machine feeding into the braze joint. The alloy is best suited for narrow gap filling in the range of .001-.005 inches. SilverAlloy A-45T is particularly useful in joining steel, copper, copper alloys; and should be used in conjunction with White SilverFlux. The ability to join similar as well as dissimilar metals has allowed for numerous applications in the refrigeration and air conditioning fields.

◆ **CHEMICAL COMPOSITION**

| Silver | Copper | Zinc | Tin |
|-----------|-----------|-----------|---------|
| 44.0-46.0 | 26.0-28.0 | 31.0-35.0 | 1.5-2.5 |

◆ **PHYSICAL and MECHANICAL PROPERTIES**

| | |
|--------------------------|------------------|
| Solidus: | 1220°F |
| Liquidus: | 1305°F |
| Braze Range: | 1310-1550°F |
| Specific Gravity: | 8.98 |
| Density: | 4.73 T.Oz./Cu.In |
| Electrical Conductivity: | 15 %IACS |
| Electrical Resistivity: | 11.75 μohm-cm |
| Color: | Light Yellow |



◆ **SPECIFICATIONS MEET or EXCEED**

- AWS A5.8 BAg-36
- ISO 3677: B Ag 45 Cu Zn Sn 640-680
- DIN 8513 LAg 45Sn

◆ **STANDARD SIZES AND DIAMETERS**

- Diameters: 1/32", 3/64", 1/16", 3/32", 1/8"
- Sizes: 1, 3, 5, or 50 troy ounce

◆ **PROPERTIES OF BRAZED JOINTS:**

Generally, the joint strength using SilverAlloy A-45T 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. The recommended maximum operating temperature for SilverAlloy A-45T is up to 400°F (370°C).