

Flux Coated Cadmium Free SilverAlloy A-45FC

◆ INTRODUCTION

Aufhauser SilverAlloy A-45FC is used especially for brazing in the electrical industry, as well as in the dairy and food industries where the use of cadmium bearing filler metals is prohibited. This filler metal is excellent for brazing brass parts. A-45FC is pre-fluxed with the correct amount of flux. No dipping or preparatory work required.

◆ APPLICATIONS

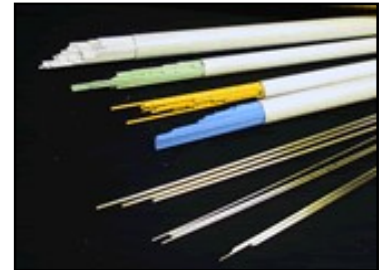
SilverAlloy A-45FC is suitable in the joining of ferrous, nonferrous and dissimilar metals and alloys with close joint clearances. It is a good choice for brazing in the dairy and food industries where the use of cadmium is prohibited. It is also often used in the electrical industry and for brazing brass parts such as ships' piping, band instruments, lamps, etc.

◆ CHEMICAL COMPOSITION

| Silver | Copper | Zinc | Total other |
|-----------|-----------|-----------|-------------|
| 44.0-46.0 | 29.0-31.0 | 23.0-27.0 | 0.15 max |

◆ PHYSICAL and MECHANICAL PROPERTIES

| | |
|-------------------------|---------------------------|
| Solidus | 1225 °F (663 °C) |
| Liquidus | 1370 °F (743 °C) |
| Braze Range | 1370-1550 °F (743-843 °C) |
| Specific Gravity | 9.11 |
| Density | 4.80 TO/cu.in. |
| Electrical Conductivity | 19.0 %IACS |
| Electrical Resistivity | 9.08 μohm-cm |
| Color | Yellow White |



◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BAg-5
- QQ-B-654A BAg-5
- ISO 3677: B Ag 45 Zn Cu 660-740
- NFA 81-362, 45 A2
- UNS P07453
- DIN 8513 L-Ag45
- EN 17672 Ag 245

◆ 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-45FC 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.