

Cadmium Free SilverAlloy A-45

◆ INTRODUCTION

Aufhauser Silver Alloy A-45 is a good general purpose brazing alloy used for most metals except aluminum and magnesium.

◆ APPLICATIONS

SilverAlloy A-45 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)
Brazing 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-45 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. For improved corrosion resistance, SilverAlloy A-50Ni2 and SilverAlloy A-40Ni2 are recommended.