Aufhauser
Corporation
39 West Mall
Plainview, NY 11803
Telephone:
516-694-8696
800-645-9486
Fax:
516-694-8690

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
44.0-46.0	29.0-31.0	23.0-27.0

♦ PHYSICAL and MECHANICAL PROPERTIES

Solidus:	1225 °F
Liquidus:	1370 °F
Brazing Range:	1370-1550 °F
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

♦ 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-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. The recommended maximum operating temperature for SilverAlloy A-45 is up to 400°F in continued service and up to 600°F in intermittent services. For improved corrosion resistance, SilverAlloy A-50Ni2 and SilverAlloy A-40Ni2 are recommended.