

SilverAlloy A-35

◆ INTRODUCTION

Aufhauser SilverAlloy A-35 is a good general purpose alloy often used when cadmium must be avoided such as in the dairy and food industries.

◆ APPLICATIONS

Typical applications are the joining of ferrous, non-ferrous and dissimilar metals and alloys with close joint clearances. It is mostly used for brazing in the electrical industry and for brazing brass parts such as ships, piping, band instruments, lamps, etc.

◆ CHEMICAL COMPOSITION

<u>Silver</u>	<u>Copper</u>	<u>Zinc</u>	<u>Total others</u>
35.0%	32.0%	33.0%	.15% max

◆ PHYSICAL and MECHANICAL PROPERTIES

Solidus:	1265 °F (685 °C)
Liquidus:	1390 °F (754 °C)
Brazing Range:	1390-1545 °F (754-841°C)
Specific Gravity:	8.668
Density:	4.568 TO/Cu.In.
Electrical Conductivity:	22.0 (%IACS)
Color:	Yellow White



◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BAg-35

◆ 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 when using SilverAlloy A-35 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-35 is up to 400°F in continuous service and up to 600°F in intermittent service. When improved corrosion resistance is needed, SilverAlloy 50-N and SilverAlloy A-40Ni2 are recommended over silver base filler metals not containing nickel.