

SilverAlloy A-35

◆ INTRODUCTION

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

◆ APPLICATIONS

SilverAlloy A-35 is suitable in the joining of ferrous, non-ferrous, 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

<u>Silver</u>	<u>Copper</u>	<u>Zinc</u>	<u>Total other</u>
35.0%	32.0%	33.0%	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	8.87
Density	4.67 TO/cu. in.
Electrical Conductivity	19.8 %IACS
Color	Yellow White



◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BA_g-35
- ISO 3677: B Ag 35 Zn Cu 680-750
- UNS P07351
- EN 17672 Ag 235

◆ 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-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. For improved corrosion resistance, SilverAlloy A-50Ni2 and SilverAlloy A-40Ni2 are recommended.