

## SilverAlloy A-30

### ◆ INTRODUCTION

Aufhauser SilverAlloy A-30 is a good general purpose brazing alloy.

### ◆ APPLICATIONS

SilverAlloy A-30 does not contain cadmium and is often used as an alternate to cadmium-containing alloys when the brazed assembly comes in contact with food or dairy products. Its slightly higher melt temperature provides improved mechanical strengths when exposed to elevated temperatures. Typical applications are the joining of ferrous, non-ferrous, and dissimilar metals and alloys with close joint clearances. SilverAlloy A-30 is used extensively in joining copper, brass, nickel, silver, and ferrous alloys.

### ◆ CHEMICAL COMPOSITION

<u>Silver</u>	<u>Copper</u>	<u>Zinc</u>	<u>Total other</u>
30.0%	38.0%	32.0%	0.15% max

### ◆ PHYSICAL and MECHANICAL PROPERTIES

Solidus	1250 °F (677 °C)
Liquidus	1410 °F (766 °C)
Brazing Range	1410-1600 °F (765-871°C)
Specific Gravity	8.628
Density	4.547 TO/cu. in.
Electrical Conductivity:	24.4 %IACS
Color:	Light Yellow



### ◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BAg-20
- DIN 8513 L-Ag30
- UNS P07301
- EN 17672 Ag 230

### ◆ 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-30 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. Where improved corrosion resistance is needed SilverAlloy A-50Ni2 and SilverAlloy A-40Ni2 are recommended over silver base filler metals not containing nickel.