



235 Kilvert Street
Warwick, RI 02886

A World-Class Quality Partner
ISO 9001:2008
Registered

PRODUCT: **SILVALOY[®] A30**
(AWS BAg-20)

COMPOSITION:

| | |
|----------------------|---------------|
| Silver | 30.0 wt% |
| Copper | 38.0 wt% |
| Zinc | 32.0 wt% |
| Total Other Elements | 0.15 wt% Max. |

MATERIAL PROPERTIES:

| | |
|----------------------------------|-------------------------|
| Solidus | 1250°F (675°C) |
| Liquidus | 1410°F (765°C) |
| Brazing Range | 1410-1600°F (765-871°C) |
| Specific Gravity | 8.628 |
| Density (T.oz./cu in) | 4.547 |
| Electrical Conductivity (% IACS) | 24.4 |
| Color | Light Yellow |

DESCRIPTION:

SILVALOY A30 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.

APPLICATIONS:

Typical applications are the joining of ferrous, nonferrous and dissimilar metals and alloys with close joint clearances. It is used extensively in joining of copper, brass, nickel, silvers, and ferrous alloys.

SPECIFICATIONS:

AWS A5.8

BAg-20



PRODUCT: **SILVALOY[®] A30 – CONTINUED**
(AWS BA_g-20)

AVAILABLE FORMS:

Standard forms of **SILVALOY A30** are wire, strip and preforms.

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength when using **SILVALOY A30** 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 **SILVALOY A30** is up to 400°F in continuous service and up to 600°F in intermittent service. Where improved corrosion resistance is needed **SILVALOY[®] A50N** and **SILVALOY[®] A40N2** are recommended over silver base filler metals not containing nickel.

SAFETY INFORMATION:

It is essential that adequate ventilation be provided so that personnel will not inhale gases and fumes while brazing. The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1 "Safety in Welding, Cutting, and Allied Processing". For more complete information, refer to the Material Safety Data Sheet for **SILVALOY A30**.

LIABILITY-DISCLAIMER:

Wolverine Joining Technologies, LLC, seeks to represent reliable information concerning the composition, properties and use of its products. The technical information provided in this publication is provided at no charge and is without guarantee, warranty or responsibility of any kind, expressed or implied.

Wolverine Joining Technologies, LLC
235 Kilvert Street
Warwick, RI 02886
401-739-9550/fax 401-739-9555
www.silvaloy.com