



235 Kilvert Street
Warwick, RI 02886

A World-Class Quality Partner
ISO 9001:2008
Registered

PRODUCT: SILVALOY[®] A24

COMPOSITION:

Silver	24.0 wt%
Copper	43.0 wt%
Zinc	33.0 wt%
Total Other Elements	0.15 wt% Max.

MATERIAL PROPERTIES:

Solidus	1290°F (700°C)
Liquidus	1435°F (780°C)
Brazing Range	1435-1565°F (780-850°C)
Specific Gravity	8.535
Density (toz/cu. in)	4.498
Electrical Conductivity (% IACS)	24.2
Color	Light Yellow

DESCRIPTION:

SILVALOY A24 does not contain cadmium and is a lower silver modification to the standard BAg-20 at 30 percent. Its slightly higher melt temperature provides improved mechanical strength when exposed to elevated temperatures or cyclic loads at elevated temperatures.

APPLICATIONS:

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

AVAILABLE FORMS:

Standard forms of **SILVALOY A24** are wire, strip and preforms.



PRODUCT: SILVALOY[®] A24 - CONTINUED

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength when using **SILVALOY A24** will surpass the strength of the base metals. Joint strength is a function of the base metal being used, type of joint, design of joint, capillary clearance, and brazing procedures. The recommended maximum operating temperature is up to 500°F in continuous service and up to 700°F in intermittent service. **SILVALOY A24** light yellow color approaches that of several brasses and can be used when color match is important. When improved corrosion resistance is needed on ferrous alloys, a nickel containing alloy such as **SILVALOY[®] A50N** is suggested as an alternative alloy.

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/AWS Z49.1 (Safety in Welding, Cutting, and Allied Processes). For more complete safety information, refer to the Material Safety Data Sheet for **SILVALOY A24**.

LIABILITY-DISCLAIMER:

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