



235 Kilvert Street
Warwick, RI 02886

A World-Class Quality Partner
ISO 9001:2000
Certified

PRODUCT: **SILVALOY[®]A30T**

COMPOSITION:

Silver	30.0 wt%
Copper	36.0 wt%
Zinc	32.0 wt%
Tin	2.0 wt%
Total Other Elements	0.15 wt% Max

MATERIAL PROPERTIES:

Solidus	1230°F (665°C)
Liquidus	1390°F (755°C)
Brazing Range	1390-1550°F (755-845°C)
Specific Gravity	8.590
Density (T.oz./cu.in.)	4.527
Color	Pale Yellow

DESCRIPTION:

The tin content in **SILVALOY A30T** provides good wetting on many difficult to wet metals such as stainless steel and tungsten carbide. This alloy, being free of Pb or Cd is preferred for long heating cycles and is suitable for use in controlled atmosphere brazing without flux. The largest use of this alloy is for furnace brazing although it is also suitable for other brazing procedures.

APPLICATIONS:

SILVALOY A30T is used for joining ferrous metals, copper, copper alloys, nickel, nickel alloys and combinations of these metals.

AVAILABLE FORMS:

Standard forms of **SILVALOY A30T** are wire, and rods.



PRODUCT: SILVALOY[®] A30T - CONTINUED

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength when using **SILVALOY A30T** 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 A30T** is up to 400°F in continuous service and up to 600°F in intermittent service. Where improved corrosion resistance is needed **SILVALOY[®] 50N** 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). For more complete information, refer to the Material Safety Data Sheet for **SILVALOY A30T**.

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.

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