



235 Kilvert Street
Warwick, RI 02886

A World-Class Quality Partner
ISO 9001:2000
Certified

PRODUCT: **SILVALOY[®] A34T**
(EN 1044 AG 106)

COMPOSITION:

Silver	34.0 wt%
Copper	36.0 wt%
Zinc	27.5 wt%
Tin	2.5 wt%
Total Other Elements	0.15 wt% Max

MATERIAL PROPERTIES:

Solidus	1165°F (630°C)
Liquidus	1345°F (730°C)
Brazing Range	1345-1550°F (730-845°C)
Specific Gravity	8.727
Density (toz/cu in)	4.599
Electrical Conductivity (% IACS)	17.5
Electrical Resistivity (Michroh-m-cm)	9.60
Color	Pale Yellow

DESCRIPTION:

The tin content 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.

APPLICATIONS:

SILVALOY A34T is used for joining ferrous metals, copper, copper alloys, nickel, nickel alloys and combinations of these metals. The largest use of this alloy is for furnace brazing although it is also suitable for other brazing procedures.

SPECIFICATIONS:

EN 1044

AG 106



PRODUCT: **SILVALOY[®] A34T - CONTINUED**
(EN 1044 AG 106)

AVAILABLE FORMS:

Standard form of **SILVALOY A34T** is wire.

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength when using **SILVALOY A34T** 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 A34T** 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 brazing 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 A34T**.

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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