



TEXAS \* PENNSYLVANIA \* NORTH CAROLINA  
<http://hi-alloy.com>

## HI-ALLOY SIL-TIN

### SILVER BEARING SOLDER ALLOY

**DESCRIPTION:** Hi-Alloy Sil-Tin is a low temperature silver bearing solder alloy containing no lead, zinc, or cadmium. Its deposits have a similar appearance to stainless steel, resist tarnishing, may be plated, and also have good electrical conductivity.

**TYPICAL APPLICATIONS:** This product will solder assemblies of copper, copper alloys, nickel, nickel alloys, steel, stainless steel and dissimilar combinations of these metals. Its deposits have better electrical conductivity and tensile strength higher than standard lead solders. These qualities make Sil-Tin solder useful in the electronics, refrigeration, instrumentation, and air conditioning industries. It conforms to pure food laws and may be used in food handling and preparation applications.

**PROCEDURES:** Thoroughly clean and degrease the joint area. Apply some Hi-Alloy Sil-Tin Flux and heat the parts indirectly with a soft flame or with an iron to avoid charring the flux. When the flux starts to bubble apply the solder alloy and continue heating until the solder has melted and flowed through the joint. Allow cooling slowly then removing the flux residue with hot running or agitated water.

**AVAILABLE SIZES:** 3/64 1/16 3/32 1/8 All on 1 lb Spools  
The 1/16 is also available in a kit containing 10' of solder and ½ oz. of flux, or 1 lb spools of alloy with an acid flux core.

**MELTING TEMPERATURE:** 430° F

**TENSILE STRENGTH:** Up to 14,000 psi on Copper and Copper Alloys  
Up to 25,000 psi on Stainless Steels

Sil-Tin Flux is Available in 6 oz Bottles