



## KappAnt™

### Description

**KappAnt™** Tin-Antimony solder is an NSF compliant Lead-free replacement for Tin-Lead solder in electrical equipment, Copper tubing, and cooling coils for refrigerators. Joints are of moderate strength where the higher strength and higher cost of KappFree™ or KappZapp™ Tin-Silver solders are not necessary. **KappAnt's** higher Tin content provides higher electrical conductivity than a high Lead solder in electrical/electronic joints. Also used where Lead may be a hazard - for instance, in contact with foodstuffs or potable water pipes. **KappAnt™** solder is suitable for use at higher temperatures than KappLead™ solders.

**Specification:** ASTM B32, Grade 95TA.



This product complies with NSF/ANSI Standard 372: Drinking Water System Components – Lead Content. Product also Certified to NSF/ANSI 61, Annex G and conforms with Lead content requirements for “Lead-free” plumbing as defined by California, Vermont, Maryland, and Louisiana state laws and the U.S. Safe Drinking Water Act in effect as of January 4, 2014. Weighted average lead content < 0.25%; Solder and flux lead content < 0.20%. This alloy complies with the European RoHS and REACH directives. No lead, cadmium or mercury used in production.

### Applications

- Plumbing applications when joining Copper, Brass, or Stainless Steel
- Hot water lines on Copper pipe, aerosol cans, and sap buckets
- Used where Lead may be a hazard - in contact with foodstuffs or potable water pipes and appliances.
- **KappAnt™** solders containing 5% Antimony (Sb) are suitable for use at higher temperatures than Tin-Lead solders
- Paired with [Kapp Comet™ Flux](#)

### Benefits & Features

- Higher Tin content provides higher electrical conductivity than a high Lead solder in electrical/electronic joints
- It is a low-cost alternative to higher priced Silver solders
- Its wide workable range allows for joint adjustment during soldering

### Properties

| Technical Data           |                       |
|--------------------------|-----------------------|
| Melting Range:           | 452-464°F (234-240°C) |
| Tensile Strength:        | 5,900 psi             |
| Shear Strength:          | 6,000 psi             |
| Elongation:              | 2%                    |
| Electrical Conductivity: | 11.9 (%IACS)          |

| Composition    |     |
|----------------|-----|
| Sn (Tin):      | 95% |
| Sb (Antimony): | 5%  |

### Product Variants

\*Available in standard forms: 1/32" (0.031") (0.8mm), 1/16" (0.062") (1.6mm), 1/8" (0.125") (3.2mm). Custom alloys and forms are our specialty. Call Kapp Alloy to discuss what size and diameter are right for you.

### Matching Flux

- [Kapp Comet™ Flux](#)