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KappZapp3.5™

Description

KappZapp3.5™ Tin-Silver solder is a NSF certified Lead-free eutectic solder that provides a strong and ductile joint with a high tolerance to vibration and stress on Copper, Brass, and Stainless Steel. In many cases, a stronger overall assembly exists after joining with **KappZapp3.5™** than with higher cost higher temperature Silver brazing alloys. The low eutectic melting temperature of 430°F (221°C) prevents loss of properties and minimizes distortion on thin wires, tabs, and sheets.



Certified to
NSF/ANSI 61 & 372

NSF International certifies that 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

- Sensitive circuit boards, thin wire, and instruments
- Copper wires to Copper, Brass, and/or Stainless Steel tabs
- Typical applications include:
 - Electronics
 - Fabrication
 - Ducting
 - Stainless Steel food containers/equipment
 - Storage bins
 - Instruments
 - Copper plumbing pipe
 - Cooling coils for refrigerators
- Paired with [Kapp Comet™ Flux](#)
- Also available in [KappZapp3.5R Rosin-Cored](#) and [KappZapp3.5A Acid-Cored](#) Flux-filled wire for convenient one step soldering.

Properties

| Composition | |
|-------------------------------------|--------------------------|
| Tin (Sn): | 96.5% |
| Silver (Ag): | 3.5% |
| Technical Data | |
| Melting Range: | Eutectic @ 430°F (221°C) |
| Tensile Strength (Copper): | 14,000 psi |
| Tensile Strength (Stainless Steel): | 25,000 psi |
| Shear Strength: | 11,600 psi |
| Elongation: | 48% |
| Electrical Conductivity: | 16.4% |
| Sn=Tin, Ag=Silver | |

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 a Kapp representative to discuss what size and diameter are right for you.

Matching Flux - [Kapp Comet™ Flux](#)