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KappZapp3.5A™

Description

KappZapp3.5A™ 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. 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.

Benefits & Features

KappZapp3.5A's low melting temperature prevents the loss of properties and minimizes distortion of thin wire, tabs, and sheets. This solder melts completely at just 430°F (221°C), minimizing the heat applied to dissimilar metals and thin tubes.

Applications

- Copper, Brass, and Stainless Steel plumbing, tube, and sheet applications
- Sensitive circuit boards, thin wire, and instruments
- Soldering Copper wires to Copper, Brass, and/or Stainless Steel tabs
- Fabrication, ducting, food containers, storage bins, and cooling coils for refrigerators
- Food and potable water safe
- Used in the food processing industry for the manufacture/repair of Stainless Steel parts and components
- Paired with Kapp Comet™ Flux when extra flux is needed
- Excess flux residue can be removed with warm water, alcohol, or by flushing with warm water
- **Acid-Cored Solders are not recommended for electrical/electronic applications, unless the joint area can be thoroughly cleaned of any residue.** Consider KappZappR™ Rosin-Cored Solders for electrical / electronic applications

Properties

Composition	
Sn (Tin):	96.5%
Ag (Silver):	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" (0.063") (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.