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## KappSAC 305

### Description

**Kapp SAC 305™**, Tin-Silver-Copper solder is an electronics industry standard for Lead-Free electrical and electronic applications. Known for its excellent wetting properties, high mechanical strength, and reliable thermal fatigue resistance, SAC305 is ideal for surface-mount technology (SMT), hand soldering and many other electronics soldering techniques. The 3% Silver content makes this solder excellent for all applications requiring strength and reliability while maintaining a lower soldering temperature. **Kapp SAC305™** creates extremely clean conductive joints that offer higher strength, ductility, and corrosion resistance. It is NSF Compliant Lead-free.

This product complies with NSF/ANSI Standard 372: Drinking Water System Components – Lead Content. Product also compliant 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

- Lead-free assembly of RoHS and REACH Compliant Electronics
- Surface-mount, through-hole soldering and Wave Soldering
- Preferred choice when strong and reliable joints are desired at a low melting temperature
- Paired with [Kapp Comet™ Flux](#)

### Properties

Composition	
Sn (Tin):	96.5%
Ag (Silver):	3%
Cu (Copper):	0.5%
Technical Data	
Melting Range:	423-428°F (217-220°C)
Tensile Strength:	7,035 psi
Specific Heat Capacity:	0.232 J/g K
Hardness:	14.1 HV
Density:	7.37 g/cm <sup>3</sup>
Electrical Conductivity:	13%

### Product Variants

\*Available in standard forms: 1/32” (0.031”) (0.8mm) and 1/16” (0.063”) (1.6mm) diameter wires. 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](#).