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## Sac305 Lead Free Solder Alloy Aim Solder

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Sac305 Lead Free Solder Alloy

SAC305 is a lead-free alloy that contains 96.5% tin, 3% silver, and 0.5% copper. This alloy falls under the JEIDA recommendation for lead-free soldering. When used in wave soldering, AIM's SAC305 bar solder offers far superior fluidity as compared to other alloys

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and makes of bar, resulting in excellent flow.

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## SAC305 | AIM Solder

DESCRIPTION SAC305 lead-free alloy contains 96.5 % tin, 3% silver, and 0.5% copper and is RoHS, REACH and JEIDA compliant. Applications include Wave, Selective, Hand and SMT Reflow Soldering. AIM Electropure™ SAC305 Shelf Lifebar solder offers reduced dross production and superior wetting and fluidity as compared to other solder brands.

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## sac305 Lead-free solder alloy

Home / Electronic Grade / Lead Free Solder / SAC Alloys Solder Bar SAC Alloys Solder Bar DKL Metals provide both E-Qual 96TSC (SAC387) and E-Qual 97TSC (SAC305). E-Qual 96TSC alloy is a proprietary alloy of composition 95.5%tin, 3.8%silver, 0.7% copper.

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## SAC 305 Alloy | Lead Free Solder Bar | Solder Bar ...

The 4900 Lead Free Solder Sn96 (SAC305) is an electronic grade, lead-free solder wire. It uses the predominant lead-free alloy composition. It is complemented with a no clean, synthetically refined, splatter-proof resin flux core. The 4900 solder wires meets J-STD-004 and exceeds J-STD-006 purity

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specifications.

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Lead Free Solder Sn96 (SAC305) 4900 Technical Data Sheet ...

Product Overview The 737195 is a 0.7mm 96.5/3/0.5 grade Lead-free Cored Solder Wire, made of Sn/Ag/Cu alloy. This cored wire is manufactured with a range of flux contents and although users will normally be using products with a nominal flux content of 3%.

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No-Clean Lead Free Solder Wire SAC305 0.7mm, 500g, 217°C ...

SAC305 is the lead-free standard alloy consisting of 96.5% tin, 3% silver, and 0.5% copper. Its silver content of 3% ensures optimal wetting properties and balanced properties in terms of thermal fatigue, strength of the solder connection, and resistance to mechanical stress. Properties of the SAC305 alloy

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SAC305 solder paste for electronics manufacturing - GENMA ...

LEAD-FREE SAC ALLOYS. SAC305, SAC387, SAC405, SAC0307. DESCRIPTION . SAC Alloys are the leading alloys replacing tin-lead solders for electronic assembly applications. These alloys have proven to perform well in surface mount, wave soldering, and hand soldering

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applications. SAC Alloys may be used with existing equipment, processes, coatings, and flux chemistries. SAC Alloys are available in ...

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## SAC Solder - Lead Free SAC Alloys | Canfield Technologies

ALPHA® SAC 305 & 405 Wave Solder Bar.

Sn96.5Ag3Cu0.5 and Sn95.5Ag4Cu0.5 are lead-free alloys suitable for use as a replacement for Sn63 alloy. The Sn97Ag3 and Sn96Ag4 variants are used to stabilize / reduce the copper content in the wave solder bath, this requirement will depend on process conditions. As with all Alpha Metals bar solder, Alpha's proprietary Vaculoy® alloying process is ...

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## ALPHA®Vaculoy SAC 305 405 Soldering Alloys | Alpha ...

Lead-Free Alloy Bar Solder Manufactured by a special process that controls the inclusions of oxides and metallic and non-metallic impurities, Kester Ultrapure® is the industry standard bar solder for use in high tech electronic applications where lower surface tension and hole filling ability are essential.

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## Lead-Free Alloy Bar Solder

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This reference covers solder alloys which feature melting points from about 50°C to about 400°C, both lead based and lead free. They're also known as soft solders. Most of them are patent free. The information below has been gathered mostly from product data sheets of various manufacturers such as Indium Corp. of America, Alpha Metals (Cookson Group), Stannol and others. The alloys are ...

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## Solder Alloys: Physical and Mechanical Properties

SAC305 Solder are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for SAC305 Solder.

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## SAC305 Solder – Mouser United Kingdom

### LEAD FREE WAVE SOLDER ALLOY DESCRIPTION

Sn96.5Ag3Cu0.5 and Sn95.5Ag4Cu0.5 and their replenishment alloys Sn97Ag3Cu0, Sn96.5Ag3.5Cu0 and Sn96Ag4Cu0 are lead- free alloys suitable for use as a replacement for Sn63 alloy. The replenishment alloys are sometimes used to stabilize / reduce the copper content in the wave solder bath, this requirement will depend on process conditions. As with all ...

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ALPHA Vaculoy SAC300,305,350,400,405 LEAD

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### FREE WAVE SOLDER ...

The two most commonly used types of lead-free solder are SnAgCu (tin-silver-copper, also called SAC) and SnCu (tin-copper). SnAgCu alloy with 3% silver and 0.5% copper (SAC305) was initially...

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### Lead-Free Solder Alloys: Their Properties And Best Types ...

SAC305 Solder Spheres are lead-free Tin/Silver/Copper alloys that contain 96.5% Tin (Sn), 3% Silver (Ag), and 0.5% Copper (Cu) and is often written as Sn96.5Ag3.0Cu0.5.

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### Buy SAC305 Leadfree Solder Spheres Solder Balls Online ...

Tin-silver-copper (Sn - Ag - Cu, also known as SAC), is a lead-free (Pb-free) alloy commonly used for electronic solder. The tin-silver-copper alloy has been the prevailing alloy system used to replace tin-lead because it is near eutectic, with adequate thermal fatigue properties, strength, and wettability.

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### Tin-silver-copper - Wikipedia

Lead-free solder may be less desirable for critical applications, such as aerospace and medical projects, ... In eutectic tin-silver

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(3.5% Ag) alloy and similar alloys (e.g. SAC305) it tends to form platelets of Ag<sub>3</sub>Sn, which, if formed near a high-stress spot, may serve as initiating sites for cracks and cause poor shock and drop performance; silver content needs to be kept below 3% to ...

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### Solder - Wikipedia

Lead-Free Solder Alloys . Table 1.9. Activation Energy versus Strain Rate for Two Lead-Free Eutectic Solders (Sn-3.5Ag and Sn-9Zn) Table 1.10. Elastic Properties of Metallic Elements Used In Electronic Packaging . Table 1.11. Material Properties of a Via-in-Pad Chip-Scale Package Printed Circuit Board (PCB) Assembly . Table 1.12. Elastic Properties and Thermal Expansion Coefficient of ...

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Properties of Lead-Free Solders - NIST  
SAC305 was the first recommended alloy world wide for lead free soldering. This solder contains 96.5% tin, 3% silver and 0.5% copper. This alloy falls under the JEIDA recommendation for lead free soldering. Aim's SAC305 is alloyed in the proprietary Electropure method that results in a low drossing, high wetting solder.

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AIM SAC305 Lead-Free Alloy (Bar Solder) -



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Waveroom Plus

SN100C® Lead-Free Solder Alloys Introduction  
FCT Assembly Solders division has partnered with Nihon Superior to manufacture their patented SN100C (Sn/Cu/Ni/Ge) solder alloy in North America. SN100C out-performs other lead-free alloys used for wave and selective soldering. SN100C is also significantly less costly than silver containing alloys.

Attributes • Excellent wetting and drainage

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