



# TECHNICAL DATA SHEET

CATEGORY: **ALLOY**  
 NAME: **Sn95 / Sb05**

## FEATURES

- Lead-Free Alloy
- High Purity
- Complies with the United States Environmental Protection Agency's January 2014 Lead-Free Safe Drinking Water Act
- High Melting Temperature 232-240°C
- Complies with the Canadian Lead-Free Solder Standard

## DESCRIPTION

95% Tin / 5% Antimony alloy is used for high temperature/high reliability interconnect applications. Tin/Antimony Alloys typically are used in electronic assembly, high-temperature soldering applications, and applications in which the use of lead is prohibitive. This alloy is available in solder paste, solid and cored wire, foil, preforms, powder, bar, ingot, and anode. Sn95/Sb05 has a melting range of 232-240°C.

## IMPURITY LEVELS IN PERCENT

Al: 0.005	Bi: 0.15	Fe: 0.04	Pb: 0.20
As: 0.03	Cd: 0.005	In: 0.10	Ag: 0.10
Au: 0.05	Cu: 0.08	Ni: 0.01	Zn: 0.005

## TENSILE STRENGTH

Ultimate Tensile Strength (MPa)	Ultimate Tensile Strength (psi)
69.5	10080

## HANDLING

- If this alloy is used in water soluble cored wire, the product will have a shelf life of 3 years. All other cored wire, solid wire, and bar solder products have an indefinite shelf life.
- Consult the MSDS for specific handling procedures.

## FLUX COMPATIBILITY

- Tin/Antimony Alloys are compatible with most electronic-grade fluxes.

## CLEANING

- Refer to data sheets provided by the flux manufacturer.

## SAFETY

- Use with adequate ventilation and proper personal protective equipment.
- Refer to the accompanying Material Safety Data Sheet for any specific emergency information.
- Do not dispose of any hazardous materials in non-approved containers.

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The information contained herein is based on data considered accurate and is offered at no charge. Product information is based upon the assumption of proper handling and operating conditions. All information pertaining to solder paste is produced with 45-micron powder. Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of any materials designated. Please refer to <http://www.aimsolder.com/Home/TermsConditions.aspx> to review AIM's terms and conditions.