



TECHNICAL INFORMATION SHEET

95-5 TIN & ANTIMONY LEAD-FREE SOLDER

NOMINAL CHEMICAL COMPOSITION %:

Antimony (Sb) 4.5 – 5.5
Tin (Sn) Remainder

MELTING TEMPERATURE:

Solidus 452° F (233° C)
Liquidus 464 °F (240° C)

ELECTRICAL CONDUCTIVITY:

11.9% (IACS)

DESCRIPTION:

95-5 tin/antimony solder is a low temperature lead-free solder with a narrow melting range. It is primarily used for copper plumbing tube but can be used for other general soldering applications. The rapid melting characteristics require close fitting connections as it is difficult “bridge” or fill wide clearances.

AVAILABLE FORMS:

3/32”, 1/8” diameter wire in 1, 5, 25 lb. spools, & formed solder rings.

SPECIFICATION COMPLIANCE:

ASTM B32 Alloy Sb-5



NSF/ANSI 61 Annex G, NSF/ANSI 372 and conforms with lead content requirements for “lead free” plumbing as defined by California, Vermont, Maryland, and Louisiana state laws, and the US Safe Drinking Water Act amendments effective January 2014.

RECOMMENDED FLUX:

Bridgit° Burn Resistant Flux
Bridgit° Water Soluble Flux (ASTM B813).
Stay Clean° Paste Soldering Flux
Stay Clean° Liquid Soldering Flux (recommended for steel or ferrous base metals).

Note: Remove flux residue after soldering.

SAFETY INFORMATION:

WARNING: PROTECT yourself and others. Read and understand this information.

FUMES AND GASES from solder, flux, or base metal can be hazardous to your health.

FLUX CHEMICALS can burn skin, eyes, and damage internal tissue if ingested.

HEAT RAYS, (infrared radiation) from flame or hot metal can injure eyes.

- Before use, read and understand the manufacturer’s instructions, Material Safety Data Sheets (MSDS), and your employer’s safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the flame, or heat source, to keep fumes and from your breathing zone and the general area.
- Wear correct eye, ear, and body protection.
- See American National Standard Z49.1, *Safety in Welding, Cutting, and Allied Processes*, published by the American Welding Society, 8669 Doral Blvd., Doral, Florida 33166; OSHA Safety and Health Standards, available from the U.S. Government Office, Washington, DC 20402.

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