



WELDCOTE 50/50 TIN/LEAD SOLDER-SOLID

Description- With some exceptions, tin-lead solders can be used to solder copper and most copper alloys, lead, nickel alloys and steel. The 50/50 solder is a general purpose solder used for non electrical applications. It is used for applications in the sheet metal, stained glass, galvanized gutters, and radiator repair industries. The tin-lead solders are not recommended in high stress or vibration joints in the cooling industry due to lack of sufficient elongation properties. This product contains lead and “should not” be used in potable water systems.

Approvals- Weldcote 50/50 tin/lead solder is manufactured to J-STD-006, ASTM- B32 Alloy Grade Sn50, and QQ-S-571F specifications.

Chemical Composition-

Tin	50%
Lead	50%

Mechanical Properties

Color	Silver
Solidus	362° F (183° C)
Liquidus	420° F (215° C)
Electrical Conductivity	47.8 (W/m-K)
Electrical Resistivity	153 (10 ⁻⁹ ohm-m)
Elongation	35%
Density	8.91 g/cm ³
Tensile Strength	6,450 psi
Shear Strength	5,870 psi

Available sizes

- 1 pound bar
- 1 pound spool- diameters 1/16, 3/32, & 1/8
- 5 pound spool- diameter 1/8
- Tri-Bar – 7/16” x 20” approximately weighs between .55 to .60 pounds

Weldcote Metals believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Weldcote Metals can not make any expressed or implied warranty as to this information.

