WELDCOTE
50/50 TIN/LEAD SOLDER-ACID

Description- This solder contains a 2.30-3.20% acid core. Acid core solders are used for soldering materials with poor solderability- Steels, Zinc, Heavily oxidized Nickel, Aluminum , etc. 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 Type WOSP-3, and QQ-S-571F specifications.

Chemical Composition-

Tin	50%
Lead	50%

Mechanical Properties

Color	Silver
Solidus	362º F (183º C)
Liquidus	420º F (215º C)
Electrical Conductivity	47.8 (W/m-K)
Electrical Resistivity	153 (10^{-9} ohm-m)
Elongation	35%
Density	8.91 g/cm³
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