



WELDCOTE 40/60 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 40/60 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 40/60 tin/lead solder is manufactured to J-STD-006, ASTM- B32 Alloy Grade Sn-40A Type WOSP-3, and QQ-S-571F specifications.

Chemical Composition-

Tin	39.5-41.5%
Lead	Remainder

Mechanical Properties

Color	Silver
Solidus	362° F (183° C)
Liquidus	460° F (238° C)
Electrical Conductivity	43.6 (W/m-K)
Electrical Resistivity	166 (10 ⁻⁹ ohm-m)
Elongation	25%
Density	9.34 g/cm ³
Tensile Strength	6320 psi
Shear Strength	5680 psi

Available sizes

- 1 pound bar
- 1 pound spool- diameters 1/16, 3/32, & 1/8
- 5 pound spool- diameter 1/8

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.

