

## Common Solders

PROPERTIES					
Composition Percentage				Solidus	Liquidus
Solder	Tin	Lead	Antimony		
*40/60	40	60	--	360° F	460° F
*60/40	60	40	--	360° F	375° F
*50/50	50	50	--	360° F	420° F
95/5	95	--	5	452° F	464° F

\*40/60, 60/40, 50/50 solders are available with rosin or acid core

### TinLead 50/50, 40/60, 60/40

With some exceptions, the TinLead can be used to solder copper and most copper alloys, lead, nickel alloys and steel.

TinLead solders are not recommended in high stress or vibration joints in the cooling industry due to lack of sufficient elongation properties. It is illegal to use lead alloys in connection with potable water systems.

### TinAntimony 95/5

The 95/5 TinAntimony lead-free solder is useful for applications where moderately elevated temperature is a factor. With a higher electrical conductivity and high fluidity, 95/5 is recommended for lead-free installation of small-diameter, tight-fitting connections. The TinAntimony solders are not recommended for use on brass.

*Forms* - 1/16", 3/32", 1/8" wire diameters. 1lb. , 5 lb., 25 lb. spools, 1 lb. bars, 1/4 lb. meter bars.

*Flux* - For TinLead and TinAntimony solders, soldering flux is recommended except on electrical or electronic applications which require the use of a non-corrosive flux.