



## Solder Alloys

### Temperature Chart

Alloy	Liquidus		Solidus		F Density (g/cc)	Tensile Strength
	C	F	C	F		
48sn52in	118	244	118	244	7.3	3200 psi ***
3ag97in	143	290	143	290	7.38	800psi ***
100in	157	315	157	315	7.31	575 psi ***
30pb70in	174	347	165	329	8.19	3450 psi
62sn36pb2ag	179	354	179	354	8.41	6380 psi
<b>50pb50in</b>	<b>209</b>	<b>410</b>	<b>184</b>	<b>363</b>	<b>8.86</b>	<b>4670 psi</b>
60in40pb	185	358	173	343	8.52	4510 psi
70sn30pb	186	367	183	361	0.17	7800 psi
63sn37pb	183	361	183	361	8.34	7500 psi
60sn40pb	188	376	183	361	8.5	7610 psi
50sn50pb	212	414	183	361	8.87	6000 psi
96.5sn3.5ag	221	430	221	430	7.36	5620 psi ***
60pb40in	225	437	205	401	9.3	5000 psi
100sn	232	4540	232	450	7.28	1900 psi ***
60pb40sn	238	460	183	361	<b>9.28</b>	5400 psi
95sn5sb	240	464	232	450	7.25	5460 psi ***
80au20sn	280	536	280	536	14.51	40000 psi ***
10sn/88pb2ag	290	570	268	513	10.75	3260 psi
95pb5sb	295	563	252	486	10.96	4200 psi
97.5pb2.5ag	303	577	303	577	11.33	5900 psi
95pb5sn	314	597	310	590	10.8	4000 psi
100pb	327	621	327	621	11.35	2750 psi
88au12ge	361	682	3612	682	14.67	26900 psi ***
96.5sn3ag.5cu	217	423	221	430	7.39 (Sac 305)	4312 psi ***
58sn42in	145	493	118	244	7.3	5900 psi ***
5ag15pb80in	149	300	149	288	7.85	2550 psi
37.5sn37.5pb2	181	358	134	273	8.42	5250 psi
80sn20pb	199	390	183	361	7.85	5800 psi
55sn45pb	200	392	183	361	8.68	6800 psi
85sn15pb	205	401	183	361	7.7	5300 psi
90sn10pb	213	415	183	361	7.55	3300 psi

Please Note: These are the more commonly used alloys. Numerous others are available.

\*\*\* Notes Lead Free

**Array Solders**  
 152 Myrtle Avenue  
 Jersey City, NJ 07305 USA

(201) 997-1333 Phone  
[sales@arraysolders.com](mailto:sales@arraysolders.com)