AVAILABLE ALLOYS

COINING™ / AMETEK® SPECIALTY METAL PRODUCTS

Solidus (°C)	Liquidus (°C)	Eutectic (°C)	Alloy #	Alloy Composition	Density (gr/cc)
		58	338	Bi49In21Pb18Sn12	9.01
		60	3041	In51Bi32.5Sn16.5	7.88
		73	3035	In66.3Bi33.7	8.00
73	75		3037	In66Bi34	8.00
		79	342	Bi57In26Sn17	8.54
		93	3024	In44Sn42Cd14	7.47
		96	150	Bi52Pb30Sn18	9.60
		100	347	Bi46Sn32Pb20	8.99
117	120		353	Bi55Pb44Sn1	10.39
		120	40490	In50.9Sn49.1	7.31
120	122		3003	In52Sn48	7.30
120	123		2059	In50Sn50	7.30
		124	345	Bi55.5Pb44.5	10.43
		127	3026	In74.7Cd25.3	7.73
134	181		1059	Sn37.5Pb37.5In25	8.42
136	152		2126	Sn54Pb26In20	8.05
138	140		361	Bi57Sn42Ag1	8.57
		139	349	Bi57Sn43	8.54
139	141		339	Bi58Sn42	8.57
		144	3006	In97Ag3	7.38
144	163		1058	Sn43Pb43Bi14	8.99
		145	2127	Sn50Pb32Cd18	8.52
149	150		3002	In80Pb15Ag5	7.85
150	168		2129	Sn53Pb37Bi10	8.65
153	163		2021	Sn70Pb18In12	7.79
		156	3000	In100	7.31
160	174		3008	In70Pb30	8.18
160	224		1114	Pb62Sn25Bi10Ag3	9.82
174	185		3004	In60Pb40	8.52
175	187		2137	Sn77.2In20Ag2.8	7.36
175	248		2023	Sn65Pb30Ag5	8.31
		176	2125	Sn67.75Cd32.25	7.69
176	189		2035	Sn60Pb38Ag2	10.71
177	188		2028	Sn62.2Pb36.4Ag1.4	8.42
177	189		2026	Sn62.5Pb36Ag1.5	8.41
		179	2031	Sn62Pb36Ag2	8.42
		179	2027	Sn62.5Pb36.1Ag1.4	8.41

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179	232		1054	Pb60Sn37Ag3	9.39
179	232		2036	Sn60Pb37Ag3	8.49
179	242		2037	Sn60Pb36Ag4	8.48
179	312		1046	Pb70Sn27Ag3	9.84
180	209		3005	In50Pb50	8.89
		183	2030	Sn62Pb38	8.37
183	185		2044	Sn63Pb37	8.40
183	186		2092	Sn62.5Pb37.5	8.43
183	188		2032	Sn60Pb40	8.51
183	192		2020	Sn70Pb30	8.16
183	200		2048	Sn55Pb45	8.69
183	205		2057	Sn80Pb20	7.85
183	212		2039	Sn50Pb50	8.87
183	212		2018	Sn85Pb15	7.70
183	218		2017	Sn90Pb10	7.56
183	220		2045	Sn93Pb7	7.48
183	222		2012	Sn95Pb5	7.42
183	227		1056	Pb55Sn45	9.07
183	228		2008	Sn96Pb4	7.40
183	232		2145	Sn89Pb7Ag4	7.58
183	238		1053	Pb60Sn40	9.28
183	241		1051	Pb62Sn38	9.36
183	257		1045	Pb70Sn30	9.72
183	260		2148	Sn60Pb38.5Cu1.5	8.48
183	271		1062	Pb75Sn25	9.96
183	282		1040	Pb80Sn20	10.21
193	199		2153	Sn85.2In8Ag4.1Bi2.2Cu0.5	7.43
195	225		1052	Pb60In40	9.29
		199	2165	Sn91.2Zn8.8	7.28
200	225		340	Sn93.5Bi5Ag1.5	7.43
208	213		2154	Sn91.5In4Ag3.5Bi1	7.39
209	212		2155	Sn93.3Ag3.1Bi3.1Cu0.5	7.43
210	215		2156	Sn92Bi4.7Ag3.3	7.45
215	221		2071	Sn95.5Ag3.3Zn1	7.38
215	222		2010	Sn95In5	7.29
216	217		2158	Sn95.4Ag3.1Cu1.5	7.38

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Solidus (°C)	Liquidus (°C)	Eutectic (°C)	Alloy #	Alloy Composition	Density (gr/cc)
		217	10008	Sn90Au10	7.77
217	218		2136	Sn96.5Ag3Cu0.5	7.37
217	218		2138	Sn95.5Ag3.9Cu0.6	7.39
217	218		2133	Sn96Ag3.5Cu0.5	7.38
217	230		10035	Sn98Sb1Au1	7.34
		221	2005	Sn96.5Ag3.5	7.37
221	226		2007	Sn96Ag4	7.38
221	226		2004	Sn97Ag3	7.36
221	227		2122	Sn96.5Ag2.5Cu1	7.37
221	227		2003	Sn97.5Ag2.5	7.35
221	240		2009	Sn95Ag5	7.40
221	270		2014	Sn93Ag7	7.45
221	275		2058	Sn92Ag8	7.47
221	295		2015	Sn90Ag10	7.52
		227	2112	Sn99.3Cu0.7	7.26
227	300		2061	Sn97Cu3	7.33
230	294		1036	Pb85Sn15	10.47
		232	2000	Sn100	7.31
232	237		2144	Sn97.5Sb2.5	7.27
232	240		2067	Sn97Sb3	7.28
		233	2024	Sn65Ag25Sb10	7.81
233	235		2001	Sn99.5Sb0.5	7.29
234	236		2002	Sn99Sb1	7.28
235	240		2011	Sn95Sb5	7.25
238	253		1044	Pb70In30	9.74
239	285		1022	Pb92Sn5Sb3	10.81
240	250		2016	Sn90Sb10	7.22
245	255		1037	Pb85Sb10Sn5	10.32
		248	1115	Pb82.5Cd17.5	10.77
250	264		1042	Pb75In25	9.97
250	272		1124	Pb75Sb15Sn10	9.75
251	295		1068	Pb92.5Sn4Ag3.5	11.08
		252	1031	Pb89Sb11	10.51
252	260		1026	Pb90Sb10	10.58
252	265		1023	Pb91Sb9	10.66
252	286		1015	Pb94Sb6	10.87
268	290		1033	Pb88Sn10Ag2	10.73

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Solidus (°C)	Liquidus (°C)	Eutectic (°C)	Alloy #	Alloy Composition	Density (gr/cc)
270	280		1038	Pb81In19	10.27
271	300		1073	Pb89.5Sn10.5	10.79
275	302		1027	Pb90Sn10	10.74
		278	10004	Au80Sn20	14.52
278	280		1072	Pb93Sn5Ag2	10.90
278	290		10121	Au79Sn21	14.34
280	290		1125	Pb91.8Sn5Ag3Ni0.2	11.02
280	303		10013	Au78Sn22	14.18
280	475		10043	Au60Ag20Sn20	12.89
285	310		1020	Pb93Sn7	10.94
287	296		1019	Pb92.5Sn5Ag2.5	11.01
290	310		1028	Pb90In5Ag5	10.99
		292	1029	Pb90Sn5Ag5	10.99
292	314		1010	Pb95In5	11.04
296	301		1017	Pb93.5Sn5Ag1.5	11.02
298	305		1117	Pb94.5Sn4.5Ag1	11.05
299	303		1013	Pb95Ag2.5Sn2.5	11.16
299	303		1066	Pb95.5Ag3Sn1.5	11.22
299	304		1009	Pb95.5Ag2.5Sn2	11.19
300	304		1012	Pb95Sn3.5Ag1.5	11.11
		304	1004	Pb97.5Ag2.5	11.32
304	327		1008	Pb96Ag4	11.30
304	950		20243	Ag97Pb3	11.33
305	314		1011	Pb95Sn5	11.03
305	364		1014	Pb95Ag5	11.29
		307	1018	Pb92.5In5Ag2.5	11.01
		309	1006	Pb97.2Ag1.75Sn1.05	11.26
		309	1005	Pb97.5Ag1.5Sn1	11.26
309	310		1071	Pb97.5Sn1.5Ag1	11.24
310	320		1007	Pb97Sn3	11.15
317	322		1003	Pb98Sn2	11.22
321	325		1001	Pb99Sn1	11.28
322	325		1069	Pb99Sb1	11.26
		327	1000	Pb100	11.34
		356	10003	Au88Ge12	14.67
		363	10088	Au96.85Si3.15	15.70
363	800		10002	Au98Si2	16.85
363	920		10093	Au99Si1	18.01

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Solidus (°C)	Liquidus (°C)	Eutectic (°C)	Alloy #	Alloy Composition	Density (gr/cc)
475	487		10111	Au80In20	14.54
488	530		10027	Au82In18	14.90
		525	10055	Ag45Au38Ge17	10.58
		577	601	Al88Si12	2.65
593	660		20248	Ag44Cu27Cd15Zn13P1	8.84
595	630		20306	Ag40Zn21Cd20Cu19	8.96
600	720		20211	Ag60Cu30Sn10	9.57
607	618		20221	Ag45Au38Ge17	9.10
620	650		20233	Ag56Cu22Zn17Sn5	9.20
625	635		20212	Ag50Cd18Zn16.5Cu15.5	9.18
630	705		20225	Ag61Cu24In15	9.48
630	705		20205	Ag61.5Cu24In14.5	9.50
643	802		20308	Cu80Ag15P5	8.42
646	677		20232	Ag45Cu27Zn25Sn3	8.91
660	750		20215	Ag50Zn28Cu20Ni2	8.97
665	682		20274	Ag60Cu25Zn15	9.42
665	985		40417	Cu85Sn8Ag7	8.87
671	718		20256	Ag65Cu20Zn15	9.49
680	699		20222	Ag49Cu16Zn23Mn7.5Ni4.5	9.35
688	774		20219	Ag50Cu34Zn16	9.25
691	800		20245	Ag63Cu28.5Sn6Ni2.5	9.71
705	800		20264	Cu38Zn33Ag25Mn2Ni2	8.51
714	905		40489	Cu95P5	7.50
718	857		20276	Ag54Cu40Zn5Ni1	9.69
750	850		20244	Ag65Cu28Mn5Ni2	9.78
		766	20246	Ag71.7Cu28Li0.3	9.50
770	830		20305	Cu50Zn33Ag17	8.46
770	895		20218	Ag56Cu42Ni2	9.75
775	785		20213	Ag71.5Cu28Ni0.5	10.00
		779	20204	Ag72Cu28	10.01
779	815		20234	Ag80Cu20	10.14
779	840		20202	Ag85Cu15	10.23
779	870		20292	Ag50Cu50	9.67
779	873		20203	Ag90Cu10	10.31
779	945		20311	Cu70Ag30	9.35

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Solidus (°C)	Liquidus (°C)	Eutectic (°C)	Alloy #	Alloy Composition	Density (gr/cc)
780	795		20249	Ag71.15Cu28.1Ni0.75	9.99
780	824		20263	Ag68.5Cu26.8Pd4.7	10.09
794	815		20214	Ag68Cu27Pd5	10.09
795	888		20210	Ag92Cu8	10.35
800	858		20271	Ag58.5Cu31.5Pd10	10.08
812	893		20235	Ag92.8Cu7.2	10.36
824	852		20239	Ag58Cu32Pd10	10.06
835	845		10042	Au60Ag20Cu20	13.79
835	850		20021	Ag97Si3	9.49
850	900		20240	Ag65Cu20Pd15	10.33
862	910		20253	Ag95Cu5	10.40
885	895		10039	Au75Cu20Ag5	15.15
885	920		20316	Ag96Cu4	10.42
900	950		20208	Ag54Pd24Cu22	10.41
905	920		10009	Au65Cu35	13.76
		910	10041	Au80Cu20	15.67
910	925		10014	Au81.5Cu16.5Ni2	15.89
910	930		10076	Au62.5Cu37.5	13.48
912	930		10074	Au87.5Cu12.5	16.88
		955	10018	Au82Ni18	15.95
955	970		10007	Au50Cu50	12.22
960	961		20267	Ag99.5Mg0.25Ni0.25	10.36
		961	20200	Ag100	10.49
962	983		20254	Ag54Pd25Cu21	10.44
975	1005		10006	Au95Cu5	18.27
980	1010		10011	Cu65Au35	11.01
1000	1020		10010	Ag50Au50	13.59
1000	1030		10038	Cu62Au35Ni3	11.01
1000	1045		10112	Au99Sn1	19.01
1004	1038		10059	Au70Ni22Pd8	14.79
1025	1050		10017	Cu73Au27	10.46
1030	1050		10033	Cu75Au25	10.35
1040	1115		10098	Au69Ag25Pt6	16.04
		1063	10023	Au99.94P0.06	19.21
		1063	10016	Au99.98P0.02	19.29
		1063	10001	Au100	19.30
1063	1078		10070	Cu90Au10	9.45
		1083	40400	Cu100	8.96