

# More Industrial Alloys

ALLOY	MELTING POINT °F	MELTING POINT °C	DENSITY lb/in <sup>3</sup>	DENSITY g/cm <sup>3</sup>
70Pb/30Su	361-496	183-257	0.3509	9.72
75Pb/25Sn	361-514	183-268	0.3595	9.96
79Pb/20In/1Sb	363-517	184-270	0.3668	10.16
58Pb/40Sn/2Sb	365-448	185-231	0.331	9.17
65Pb/35In	380-450	193-232	0.342	9.47
60Pb/40In	383-437	195-225	0.3355	9.3
91Sn/9Zn	390 Eutectic	199 Eutectic	0.2626	7.27
4 Bi/.2Cu/.2Ag/95.6Sn	403-453		0.2610	
90Sn/10Au	422 Eutectic	217 Eutectic	0.273	7.3
96.5/3.5Ag	430 Eutectic	221 Eutectic	0.2657	7.36
96Sn/4Ag	430-448	221-237	0.264	7.31
95Sn/5Ag	430-465	221-240	0.2668	7.39
90Sn/10Ag	430-563	221-295	0.2711	7.51
97Sn/3Cu	441-590	227-310	0.265	7.34
100Sn	450	232	0.2628	7.28
98Sn/2Sb	450-456	232-235	0.269	7.45
97Sn/3Sb	450-460	232-238	0.2621	7.26
95Sn/5Sb	450-464	232-240	0.2617	7.25
65Sn/25Ag/10Sb	451 Eutectic	223 Eutectic	0.2818	7.8
99Sn/1Sb	450-456	232-235	0.2624	7.27
85Pb/10Sb/5Sn	463-470	239-243	0.382	10.58
92Pb/5Sn/3Sb	463-545	239-285	0.3906	10.82
82.5Pb/17.5Cd	478 Eutectic	248 Eutectic	0.3795	10.51
75Pb/25In	482-508	250-264	0.3599	9.97
95Pb/5Sb	485-597	252-314	0.3956	10.96
90Pb/10Sb	485 Eutectic	252-260	0.3826	10.6
82.6Cd/17.4Zn	511 Eutectic	266 Eutectic	0.3014	8.35
88Pb/10Sn/2Ag	514-570	268-299	0.3887	10.77
81Pb/10In	518-536	270-280	0.3707	10.27
100 Bi	520	271	0.3541	9.8
96Pb/4Sb	522-603	273-316	0.393	10.87
95Bi/5Sb	524-564	274-296	0.3445	9.54

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90Pb/10Sn	527-576	275-302	0.3881	10.75
85Pb/15In	529-553	277-290	0.3795	10.51
80Au/20Sn	536 Eutectic	280 Eutectic	0.5242	14.51
90Pb/10In	536-558	280-292	0.387	10.72
92.5Pb/5Sn/2.5Ag	549-565	287-296	0.3978	11.02
90Pb/5In/5Ag	554-590	290-310	0.3971	11.00
90Pb/5Ag/5Sn	558 Eutectic	292 Eutectic	0.3971	11.00
95Pb/5In	558-598	292-314	0.398	11.06
95.5Pb/2.5Ag/2Sn	70-580	299-304	0.4043	11.2
92.5Pb/5In/2.5Ag	572 Eutectic	300 Eutectic	0.3978	11.02
98Pb/2Sb	572-608	300-320	0.4039	11.19
97.5Pb/2.5Ag	579 Eutectic	303 Eutectic	0.409	11.33
95Pb/5Ag	581-687	305-364	0.4079	11.3
97.5Pb/1.4Ag/1Sn	588 Eutectic	209 Eutectic	0.4072	11.28
95Pb/5Sn	590-598	310-214	0.398	11.06
98.5Pb/1.5Sb	590-611	310-322	0.4054	11.23
91Pb/4Sn/4Ag/1In	597 Eutectic	313 Eutectic	0.406	11.24
100 Pb	620	327	0.409	11.34
75Au/25In	843-868	451-465	0.4946	13.69
82Au/18In	843-905	451-485	0.5383	14.9
40In/40Sn/20Pb	248-266	120-130	0.2837	7.86
42Pb/37Sn/21Bi	248-306	120-152	0.3307	9.16
55.1Bi/39.9Sn/5Pb	250-277	121-136	0.313	8.67
50Sn/25Pb/25Bi	250-400	121-204	0.2937	8.14
74In/26Cd	253 Eutectic	123 Eutectic	0.2751	7.62
55.5Bi/44.5Pb	255 Eutectic	124 Eutectic	0.3769	10.44
58 Bi/42Pb	255-259	124-126	0.3754	10.4
70In/15Sn/9.6Pb/4Cd	257 Eutectic	125 Eutectic	0.2754	7.63
95In/5Bi	257-302	125-150	0.2673	7.4
75In/25Sn	262-269	128-132	0.272	7.3
56.84Bi/41.16Sn/2Pb	262-271	128-133	0.3105	8.6
50Pb/30Sn/20Bi	266-343	130-173	0.3419	9.47

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51.5Pb/27Sn/21.5Bi	268-338	131-170	0.3458	9.58
80In/20Sn	268-375	131-190	0.271	7.3
45Sn/32Pb/18Cd/5Bi	270-282	132-139	0.3115	8.63
57.4Bi/41.6Sn/1Pb	275 Eutectic	135 Eutectic	0.3097	8.58
58Bi/42Sn	281 Eutectic	138 Eutectic	0.309	8.56
50Bi/50Sn	281-299	138-148	0.297	8.23
43Bi/57Sn	281-333	138-167	0.296	8.16
60Sn/40Bi	281-338	138-170	0.2931	8.12
48Sn/36Pb/16Bi	284-324	140-162	0.317	8.78
60Bi/40Cd	291 Eutectic	144 Eutectic	0.3361	9.31
90In/10Sn	291-295	144-163	0.271	7.51
43Pb/43Sn/14Bi	291-325	144-163	0.3245	8.99
51.2Sn/30.6Pb/18.2Cd	293 Eutectic	145 Eutectic	0.305	8.45
50Sn/25Cd/25Pb	293-320	145-160	0.3018	8.36
75In/25Pb	293-325	145-162	0.283	7.84
43Sn/43Pb/14Cd	293-347	145-175	9.31	8.59
97In/3Ag	296 Eutectic	146 Eutectic	0.2664	7.38
80In/15Pb/5Ag	298-300	148-149	0.2834	7.85
70Sn/18Pb/12In	307-322	153-161	0.2812	7.79
100In	313	156.7	0.2639	7.31
70In/30Pb	320-345	160-174	0.2956	8.19
65.5Sn/31.5Bi/3.0Zn	338 Eutectic	170 Eutectic	0.2901	8.03
60In/40Pb	345-365	174-185	0.3077	8.52
67.8Sn/32.2Cd	348 Eutectic	176 Eutectic	0.2772	7.68
62Sn/36Pb/2Ag	355 Eutectic	179 Eutectic	0.3036	8.41
55Pb/44Sn/1Ag	355-410	179-210	0.3289	9.1
60Pb/37Sn/3Ag	355-450	179-232	0.339	9.39
50In/50Pb	356-408	180-209	0.3198	8.86
50Sn/49.5Pb/.5Sb	360-420	182-216	0.3198	8.85
63Sn/37Pb	361 Eutectic	183 Eutectic	0.3032	8.4
70Sn/30Pb	361-367	183-186	0.2946	8.16
60Sn/Pb40	361-370	183-188	0.3068	8.5

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75Sn/25Pb	361-380	183-192	0.2888	8.00
80Sn/20Pb	361-390	183-199	0.2834	7.85
55Sn/45Pb	361-392	183-200	0.3133	8.68
85Sn/15Pb	361-403	183-205	0.278	7.7
50Sn/50Pb	361-413	183-212	0.3202	8.87
90Sn/10Pb	361-415	183-213	0.2726	7.55
95Sn/5Pb	361-432	183-222	0.2679	7.42
55Pb/45Sn	361-440	183-227	0.3274	9.07
60Pb/40Sn	361-460	183-238	0.335	9.28
44.7Bi/22.6Pb/19.1In/8.3Sn/5.3Cd	117 Eutectic	47 Eutectic	0.3307	9.16
49.3Bi/20.8In/17.9Pb/11.5Sn/.5Cd	129-133	54-56	0.3253	9.01
47.5Bi/25.4Pb/12.6Sn/9.5Cd/5In	134-149	57-65	0.3419	9.47
49Bi/21In/18Pb/12Sn	136 Eutectic	58 Eutectic	0.3253	9.00
49Bi/18Pb/18In/15Sn	136-156	58-69	0.3249	9.00
48Bi/25.7Pb/12.7Sn/9.6Cd/4In	142-149	61-65	0.3429	9.5
61.72In/30.78Bi/7.5Cd	143 Eutectic	61.5 Eutectic	0.2895	9.01
52Bi/26Pb/22In	156-158	68-69	0.345	9.55
50Bi/27Pb/13Sn/10Cd	158 Eutectic	70 Eutectic	0.3458	9.58
50.5Bi/27.8Pb/12.4Sn/9.3Cd	158-165	70-73	0.3491	9.67
50 Bi/34.5Pb/9.3Sn/6.2Cd	158-173	70-78	0.3579	9.89
42Bi/35Pb/13Sn/10Cd	158-176	70-80	0.3539	9.79
41Bi/36Pb/13Sn/10Cd	158-185	70-85	0.3541	9.8
42.5Bi/37.7Pb/11.3Sn/8.5Cd	158-194	70-90	0.3541	9.81
46Pb/30.7Bi/18.2Sn/5.1Cd	158-253	70-123	0.3516	9.74
42Bi/37Pb/12Sn/9Cd	160-190	71-88	0.3541	9.81
66.3In/33.7Bi	162 Eutectic	72 Eutectic	0.2886	7.99
40Bi/33.4Pb/13.3Sn/13.3Cd	162-235	72-113	0.3476	9.63
50Bi/39Pb/7Cd/4Sn	165-200	73-93	0.365	10.11
50Bi/39Pb/8Cd/3Sn	170-180	77-82	0.3657	10.13
48.5Bi/41.5In/10Cd	171 Eutectic	77.5 Eutectic	0.3066	8.49
54.1Bi/29.6In/16.3Sn	178 Eutectic	81 Eutectic	0.3058	8.47
50.4Bi/39.2Pb/8Cd/1.4In/1Sn	178-185	81-85	0.3664	9.8

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52Bi/31.6Pb/15.4Sn/1Cd	181-198	83-92	0.3502	9.7
51.08Bi/39.8Pb/8.12Cd/1In	188-196	87-91	0.3686	10.21
51.45Bi/31.35Pb/15.2Sn/2In	190-200	87-93	0.348	9.64
46.7Bi/39.3Pb/12.4Sn/1.6In	190-230	88-110	0.3457	9.58
51.6Bi/40.2Pb/8.2Cd	197 Eutectic	92 Eutectic	0.37	10.25
44In/42Sn/14Cd	200 Eutectic	93 Eutectic	0.2693	7.46
50Bi/31Pb/19Sn	200-210	93-99	0.3458	9.58
52Bi/30Pb/18Sn	202 Eutectic	95 Eutectic	0.3465	9.6
50Bi/28Pb/22Sn	202-225	95-108	0.3418	9.47
52.5Bi/32PB/15.5Sn	203 Eutectic	95.5 Eutectic	0.347	9.69
52Bi/32Pb/16Sn	203-204	95-95.5	0.35	9.69
56Bi/22Pb/22Sn	203-219	95-104	0.3382	9.37
50Bi/30Pb/20Sn	203-219	95-104	0.344	9.53
46.1Bi/19.7Pb/34.2Sn	203-219	95-104	0.327	9.06
50Bi/25Pb/25Sn	203-239	95-115	0.3364	9.32
51.6Bi/37.4Sn/6In/5Pb	203-264	95-129	0.3097	8.58
36Bi/32Pb/31Sn/1Ag	203-277	95-136	0.3328	9.22
45Bi/35Pb/20Sn	205-225	96-107	0.3465	9.6
34Pb/34Sn/32Bi	205-271	96-133	0.3303	9.15
52.2Bi/37.8Pb/10Sn	208-221	98-105	0.3599	9.97
51.6Bi/41.4Pb/7Sn	208-234	98-112	0.3657	10.13
35.7Sn/35.7Bi/28.6Pb	212 Eutectic	100 Eutectic	0.337	9.34
54.5Bi/39.5Pb/6Sn	215-226	102-198	0.366	10.14
53.9Bi/25.9Sn/20.2Cd	219 Eutectic	104 Eutectic	0.3111	8.67
67Bi/33In	229 Eutectic	109 Eutectic	0.318	8.81
55Bi/44Pb/1Sn	242-248	117-120	0.3751	10.39
52In/48Sn	244 Eutectic	118 Eutectic	0.2635	7.3
50In/50Sn	244-257	118-125	0.2635	7.3
52Sn/48In	244-268	118-131	0.2635	7.3
58Sn/42In	244-293	118-145	0.2635	7.3
55Bi/44Pb/1In	248-250	120-121	0.3751	10.38