

18 - GUIDE DES BRASURES BRAZING GUIDE

1/6

12 / 03 / 2012

Classement par température
Table by increasing melting points

Référence	Température Centigrade			Alliage/Alloy	Densité
	solidus		liquidus		
8520	10,7	E	10,7	Ga/In/Sn/62,5/21,5/16	6,5
8510	15,7	E	15,7	Ga/In/75,5/24,5	6,35
8530	25		15,7	Ga/In/95/5	6,15
8500	29,78	E	29,78	Ga/99,99	5,9
3220	47	E	47	Bi/Pb/In/Sn/Cd/44,7/22,6/19,1/8,3/5,3	9,16
3210	58	E	58	Bi/In/Pb/Sn/49/21/18/12	9,01
4180	61	E	61	In/Bi/Sn/51/33/16	7,98
4175	61,5	E	61,5	In/Bi/Cd/61,72/30,78/7,5	8,03
4170	62	E	62	In/Bi/Cd/62/30/8	8,02
3200	70	E	70	Bi/Pb/Sn/Cd/50/26,7/13,3/10	9,58
4090	72	E	72	In/Bi/95/5	7,40
3180	77,5	E	77,5	Bi/In/Cd/48,5/41,5/10	8,49
3170	79	E	79	Bi/In/Sn/57/26/17	8,54
3165	81	E	81	Bi/In/Sn/54,02/29,68/16,3	8,47
3163	92	E	92	Bi/Pb/Cd/51,6/40,2/8,2	10,25
4165	93	E	93	In/Sn/Cd/44/42/14	7,46
3160	94		90	Bi/Pb/Sn/In/52/31,7/15,3/1	9,7
3150	95	E	95	Bi/Pb/Sn/52,5/32/15,5	9,7
3140	96	E	96	Bi/Pb/Sn/52/30/18	9,6
3130	100	E	100	Bi/Pb/Sn/50/28/22	9,44
3120	100	E	100	Bi/Sn/Pb/46/34/20	8,99
3260	102		108	Bi/Pb/Sn/55/39/6	10,13
3110	107		96	Bi/Pb/Sn/45/35/20	9,6
3100	109	E	109	Bi/In/67/33	8,81
3090	113		72	Bi/Pb/Sn/Cd/40/33,4/13,3/13,3	9,63
3085	115		95	Bi/Pb/Sn/50/25/25	9,32
4160	118	E	118	In/Sn/52/48	7,3
3080	120		117	Bi/Pb/Sn/55/44/1	10,38
3070	121		120	Bi/Pb/In/55/44/1	10,39
5330	123		70	Pb/Bi/Sn/Cd/46/30,7/18,2/5,1	9,74
4150	123	E	123	In/Cd/74/26	7,62
3061	124	E	124	Bi/Pb/55,5/44,5	10,45
3060	124	E	124	Bi/Pb/55/45	10,46
4092	125		117	In/Bi/60/40	8,14
4161	125		117	In/Sn/50/50	7,3
4140	125	E	125	In/Sn/Pb/Cd/70/15/9,6/5,4	7,63
3050	126		124	Bi/Pb/58/42	10,39
5320	127		93	Pb/Bi/Sn/38/37/25	9,48
4120	130		121	Sn/In/Pb/40/40/20	7,86

6340	131		118	Sn/In/52/48	7,3
6292	133		96	Sn/Pb/Bi/34/34/32	9,15
3040	135	E	135	Bi/Sn/Pb/57,42/41,58/1	8,57
3041	135	E	135	Bi/Sn/Pb/57/42/1	8,56
3030	136		95	Bi/Pb/Sn/Ag/36/32/31/1	9,22
5300	137		96	Pb/Bi/Sn/43/28,5/28,5	9,43
3020	138	E	138	Bi/Sn/58/42	8,56
3015	139	E	139	Bi/Sn/57/43	8,54
5290	139		96	Pb/Bi/Sn/38,4/30,8/30,8	9,3
6330	139		132	Sn/Pb/Cd/Bi/45/32/18/5	8,63
4110	143	E	143	In/Ag/97/3	7,38
3010	144	E	144	Bi/Cd/60/40	9,31
6320	145		118	Sn/In/58/42	7,3
6310	145	E	145	Sn/Pb/Cd/51,2/30,6/18,2	8,45
6315	146	E	146	Sn/Pb/Cd/50/32/18	8,5
4100	149	E	149	In/Pb/Ag/80/15/5	7,85
4091	150		125	In/Bi/ 663/337	7,99
4080	150	E	150	In/Ga/99,3/0,7	7,3
5280	152		120	Pb/Sn/Bi/420/370/210	9,16
4070	153	E	153	In/Cu/99/1	7,32
4059	156,7	E	156,7	In 99,999	7,31
4060	156,7	E	156,7	In/99,99	7,31
4081	160	E	160	In/Pb/81/19	7,84
5270	160		122	Pb/Bi/54,55/45,45	10,59
6305	160		145	Sn/Cd/Pb/50/25/25	8,36
6290	162		140	Sn/Pb/Bi/48/36/16	8,78
4040	162		159	In/Ag/95/5	7,42
6300	162	E	162	Sn/Pb/In70/18/12	7,79
6291	163		144	Sn/Pb/Bi/43/43/14	8,99
6280	167		120	Sn/Pb/Bi/50/40/10	8,77
6270	170		138	Sn/Bi/60/40	8,12
4050	170		162	In/Pb/75/25	8,02
5250	173		130	Pb/Sn/Bi/50/30/20	9,47
4035	174		160	In/Pb/70/30	8,19
6265	177	E	177	Sn/Cd/67,8/32,2	7,68
6253	177		189	Sn/Pb/Ag/62/35/3	8,42
6255	179	E	179	Sn/Pb/Ag/62/36/2	8,42
6256	179	E	179	Sn/Pb/Ag/62/36,5/1,5	8,42
6260	179	E	179	Sn/Pb/Ag/62,5/36,1/1,4	8,41
6261	179	E	179	Sn/Pb/Ag/62,5/36/1,5	8,46
6254	179		232	Sn/Pb/Ag/60/37/3	8,49
6250	180		96	Sn/Bi/Pb/60/25,5/14,5	8,25
6301	181		134	Pb/Sn/In/37,5/37,5/25	8,42
6240	183	E	183	Sn/Pb/63/37	8,4
6215	183	E	183	Sn/Pb/61,9/38,1	8,44
6230	184		183	Sn/Pb/65/35	8,33
4033	185		174	In/Pb/60/40	8,52
6220	186		183	Sn/Pb/70/30	8,16
6210	188		183	Sn/Pb/60/40	8,5
6200	192		183	Sn/Pb/75/25	8
5230	197		170	Pb/Sn/Bi/55,5/40,5/4	9,21
6190	199		183	Sn/Pb/80/20	7,85

6180	199	E	199	Sn/Zn/91/9	7,27
6170	200		183	Sn/Pb/55/45	8,68
4030	205		177	In/Pb/52/48	8,81
6160	205		183	Sn/Pb/85/15	7,7
4020	209		180	In/Pb/50/50	8,89
5220	210		177	Pb/Sn/Ag/55/44/1	9,11
5211	212		183	Sn/Pb/50/50	8,87
6140	213		183	Sn/Pb/90/10	7,55
4010	215	E	215	In/Pb/55/45	8,7
6135	216		183	Sn/Pb/Sb/50/49,5/0,5	8,85
6102	217		215	Sn/Ag/Cu/96,5/3/0,5	7,36
5210	218		183	Pb/Sn/52/48	8,95
6105	221		223	Sn/Ag/97/3	7,36
6120	221	E	221	Sn/Ag/96,5/3,5	7,36
6110	221		240	Sn/Ag/95/5	7,40
6055	222		221	Sn/Ag/96/4	7,38
6185	222		183	Sn/Pb/96,5/3,5	7,37
5200	225		195	Pb/In/60/40	9,29
6100	226		221	Sn/Ag/97,5/2,5	7,34
5190	227		183	Pb/Sn/55/45	9,07
5180	231		185	Pb/Sn/Sb/58/40/2	9,17
5170	232		179	Pb/Sn/Ag/60/37/3	9,39
6090	232	E	232	Sn/99,99	7,28
6080	233	E	233	Sn/Ag/Sb/65/25/10	7,8
6075	235	E	235	Sn/Sb/99/1	7,27
4000	237		141	In/Ag/90/10	7,53
5160	238		183	Pb/Sn/60/40	9,28
6070	238		232	Sn/Sb/97/3	7,26
6040	240		232	Sn/Sb/95/5	7,25
6060	240		235	Sn/Sb/98/2	7,28
5150	243		185	Pb/Sn/Sb/63,2/35/1,8	9,39
6107	245		222	Sn/Ag/95,5/4,5	7,39
5140	247		183	Pb/Sn/65/35	9,5
6030	248		179	Sn/Pb/Ag/61,5/35,5/3	8,43
5170	248	E	248	Pb/Cd/93/7	5,88
5130	250		185	Pb/Sn/Sb/68,4/30/1,6	9,63
3005	251		134	Bi/Sn/95/5	9,64
6245	251		183	Sn/Pb/33/67	9,58
6240	251		183	Sn/Pb/67/33	8,26
5016	252		265	Pb/Sb/91/9	10,50
5120	253		179	Pb/Sn/Ag/70/27/3	9,84
5110	257		183	Pb/Sn/70/30	9,72
6020	260		179	Sn/Pb/Ag/50/47/3	8,86
5100	260		252	Pb/Sb/90/10	10,6
5090	264		250	Pb/In/75/25	9,97
7520	266	E	266	Cd/Zn/82,6/17,4	8,35
5080	268		183	Pb/Sn/75/25	9,96
5070	270		184	Pb/In/Sb/79/20/1	10,16
3000	271	E	271	Bi/99,99	9,8
2440	280	E	280	Au/Sn/80/20	14,52
5060	280		183	Pb/Sn/80/20	10,21
5050	280		270	Pb/In/81/19	10,27

5040	285		239	Pb/Sn/Sb/92/5/3	10,82
5030	288		183	Pb/Sn/85/15	10,48
5020	292	E	292	Pb/Ag/Sn/90/5/5	11
5006	294		300	Pb/In/90/10	10,75
6010	295		221	Sn/Ag/90/10	7,51
5015	295		252	Pb/Sb/95/5	10,96
5171	298		277	Pb/Sn/Ag/93,5/5/1,5	11,02
5125	296	287	277	Pb/Sn/Ag/92,5/5/2,5	11,01
6000	300		227	Sn/Cu/97/3	7,32
5013	300	E	300	Pb/In/Ag/92,5/5/2,5	11,02
6005	302		221	Sn /Cu 930/70	7.40
5011	302		275	Pb/Sn/90/10	10,75
5010	303	E	303	Pb/Ag/97,5/2,5	11,33
5007	304		299	Pb/Ag/Sn/95,5/2,5/2	11,2
5005	305		300	Pb/In/92/8	10,86
7505	309	E	309	Cd/Au/87/13	9,32
5004	309	E	309	Pb/Ag/Sn/97,5/1,5/1	11,28
5003	310		290	Pb/In/Ag/90/5/5	11
5002	314		292	Pb/In/95/5	11,06
5001	314		310	Pb/Sn/95/5	11,06
5000	315	E	315	Pb/Sb/Ga/98/1,2/0,8	11,2
7510	321	E	321	Cd/999,99	8,55
5350	327	E	327	Pb/99,99	11,35
5017	327	E	327	Pb/Sb/99,9/0,1	11,33
6350	345		232	Sn/Ge/99/1	7,26
2420	356	E	356	Au/Ge/88/12	14,67
5345	364		305	Pb/Ag/95/5	11,3
2405	370	E	370	Au/Si/98/2	16,83
2410	370	E	370	Au/Si/96,4/3,6	15,4
9510	382	E	382	Zn/Al/95/5	6,6
7500	395		340	Cd/Ag/95/5	8,73
5340	418		318	Pb/Zn/98/2	11,21
9500	419	E	419	Zn/99,99	4,5
7504	500	E	500	Cd/Au/58/42	11,26
2390	540	E	540	Au/Cd/53/47	12,23
2380	612	E	612	Au/Cd/72/28	14,35
1330	617		608	Ag/Cd/Cu/Zn/42/25/17/16	9,06
1315	620		605	Ag/Cd/Zn/Cu/45/24/16/15	9,09
2370	626		626	Au/Zn/69/31	12,65
1310	630		595	Ag/Zn/Cd/Cu/40/21/20/19	8,94
1300	630		620	Ag/Cd/Zn/Cu/50/19/16/15	9,19
1290	635		625	Ag/Cd/Zn/Cu/50/18/16,5/15,5	9,19
2360	642	E	642	Au/Zn/85/15	15,37
1280	650		620	Ag/Cu/Zn/Sn/56/22/17/5	9,21
1270	660		630	Ag/Zn/Cu/Sn/55/22/21/2	9,14
7000	660	E	660	Al/99,99	2,7
1260	670		612	Ag/Cu/Cd/Zn/34/25/21/20	8,88
1255	685		607	Ag/Cu/Zn/Cd/30/28/21/21	8,81
1240	690		630	Ag/Cd/Cu/Zn/Ni/50/16/15,5/15,5/3	9,21
1220	700		605	Ag/Cu/Zn/Cd/35/26/21/18	8,88
1230	700		680	Ag/Cu/Zn/45/25/30	8,86
1210	705		630	Ag/Cu/In/61/24/15	9,49

1211	707		624	Ag/Cu/In/61,5/24/14,5	9,51
1208	710		600	Ag/Cu/In/60/27/13	9,52
1205	710		605	Ag/Cu/Zn/Cd/30/27/23/20	8,77
1200	710		650	Ag/Cu/Zn/Sn/40/30/28/2	8,8
1190	720		600	Ag/Cu/Sn/60/30/10	9,58
1180	730		695	Ag/Cu/Zn/60/26/14	9,45
8040	735		610	Cu/Zn/Ag/Cd/35/27/23/15	8,61
8030	740		700	Cu/Zn/Ag/33,5/33,5/33	8,64
2350	749		724	Au/Ag/Cu/Zn/42/32/16/10	11,89
1115	750		674	Ag/Cu/Zn/60/30/10	9,56
8050	755		665	Cu/Zn/Ag/Sn/36/32/30/2	8,59
1011	760		693	Ag/Au/Cu/Cd/Zn/31/29/20/19/1	11,08
1195	760		743	Ag/Cu/Sn/68/27/5	9,83
8025	766		603	Cu/Zn/Ag/Cd/39,8/29,8/20/10,4	8,53
1127	779		795	Ag/Cu/75/25	10,07
1130	780	E	780	Ag/Cu/72/28	10,02
1120	785		775	Ag/Cu/Ni/71,5/28/0,5	10,01
2330	788		732	Au/Ag/Cu/Zn/48/29/17/6	12,52
1110	800		690	Ag/Cu/Sn/Ni/63/28,5/6/2,5	9,72
1550	800		780	Paliney (Pd/Ag/Cu/Au/Pt/Zn 35/30/14/10/10/1)	11,83
1090	810		804	Ag/Cu/Pd/68/27/5	10,1
1100	810		807	Ag/Cu/Pd/68,4/26,6/5	10,1
1126	815		779	Ag/Cu/80/20	10,14
1105	824		780	Ag/Cu/Pd/68,5/26,8/4,7	10,09
2320	827		804	Au/Ag/Cu/53/23,5/23,5	13,15
8020	830		790	Cu/Zn/Ag/50/34/16	8,42
1070	852		824	Ag/Cu/Pd/58,5/31,5/10	10,08
1060	857		718	Ag/Cu/Zn/Ni/54/40/5/1	9,7
1125	870		780	Ag/Cu/90/10	10,32
1050	880		845	Ag/Ga/Pd/82/9/9	9,92
1030	890		810	Ag/Cu/92,5/7,5	10,37
2130	890	E	890	Au/Cu/80/20	15,67
2300	895		885	Au/Cu/Ag/72/20/8	15,16
1340	900		850	Ag/Cu/Pd/65/20/15 (Pacucil)	10,34
2290	900		860	Au/Cu/In/60/37/3	13,07
1046	910		862	Ag/Cu/95/5	10,4
1245	914		900	Ag/Cd/88/12	10,24
2285	920		890	Au/Ag/Cu/62,5/30/7,5 (Au 232)	14,42
1250	920		910	Ag/Cd/90/10	10,28
1045	930		880	Ag/Cu/92/8	10,36
1244	942		935	Ag/Cd/95/5	10,39
2280	950	E	950	Au/Ni/82/18	15,92
1020	961	E	961	Ag/99,99	10,5
8023	971		954	Cu/Au/55/45	11,81
2260	975		950	Au/Cu/50/50	12,24
1015	980		978	Ag/Au/90/10	11
8000	985		665	Cu/Sn/Ag/85/8/7	8,87
8015	999		843	Cu/Sn/91/9	8,78
1014	1000		980	Ag/Au/65/35	12,49
2240	1004		971	Au/Cu/In/50/40/10	12,23
1012	1005		990	Ag/Au/60/40	14,84

8022	1018		1000	Cu/Au/62,5/37,5	11,21
1010	1020		1000	Au/Ag/50/50	13,6
8021	1020		1000	Cu/Au/65/35	11,03
8024	1030		975	Cu/Au/Ni/62/35/3	11,03
2190	1030		1025	Au/Ga/99/1	18,87
2180	1037		1005	Au/Ni/Pd/70/22/8	14,78
2170	1040		1030	Au/Ag/75/25	15,96
2160	1048		1038	Au/Ag/80/20	16,53
2150	1050		1040	Au/Ag/83/17	16,89
2000	1063	E	1063	Au/99,99	19,3
8013	1078		1063	Cu/Au/90/10	9,47
2130	1080		1000	Au/ Cu/80/20	15,68
8010	1083	E	1083	Cu/999,99	8,96
1009	1121		1071	Ag/Pd/Mn/75/20/5	10,55
2120	1121		1102	Au/Ni/Pd/50/25/25	13,37
1005	1150		1070	Ag/Pd/80/20	10,77
2115	1150		1125	Au/Pd/96,5/3,5	18,9
2113	1200		1150	Au/Pd/94/6	18,62
1000	1230		1160	Ag/Pd/70/30	10,91
2110	1240		1190	Au/Pd/92/8	18,41
2100	1250		1200	Au/Pd/91/9	18,3
2090	1306		1260	Au/Pd/87/13	17,89
2080	1350		1325	Au/Pd/82/18	17,4
2070	1400		1375	Au/Pd/75/25	16,76
2060	1410		1210	Au/Pt/75/25	19,8
2050	1440		1421	Au/Pd/65/35	15,92
13400	1453	E	1453	Ni/99,99	8,9
13000	1453	E	1453	Ni/Be/98/2	8,9
2040	1463		1450	Au/Pd/60/40	15,54
1500	1554	E	1554	Pd/99,99	12
2030	1590		1280	Au/Pt/55/45	20,21
2020	1650		1410	Au/Pt/80/20	19,69
9000	1650		1410	Pt/Au/80/20	20,98
10000	1660	E	1660	Ti/99,99	4,5
9040	1695		1645	Pt/Pd/Au/75/20/5	18,45
9010	1769	E	1769	Pt/99,99	21,4
14000	2454	E	2454	Ir 99,99	22,5

