

Industry Number	Logibus	TEMP (Temperature critical alloy: 52°C of solder. Non-temperature critical alloy 15°C)	Solder	TEMP (Temperature critical alloy: 52°C of solder. Non-temperature critical alloy 15°C)	Solder	Purity	Electrical Conductivity (1.724mm-ohm)	Thermal Conductivity @ 20°C	Coefficient of Expansion @ 20°C	Tensile Strength	Shear Strength	Young's Modulus	Elongation	Bridell Hardness	Label Heat of Fusion	Specific Heat SOLID LIQUID	Notes	
																		Logibus
244	227 E	227	99.3 Sn	6.1 Cu	441	441	0.2847	7.31										
148	241	185	60.0 Pb	40.0 Sn	448	366	0.2933	8.17										Antisolder-issues
206	231	107	60.0 Pb	40.0 Sn	448	367	0.3380	9.30										Lead-free alloy, no Potent
127	242	179	60.0 Pb	37.5 Sn	450	354	0.2989	8.26	5.2	19	26	5000						Minimizes gold leaching characteristics. Good thermal fatigue properties
128	232	MP	100.0 Sn		450		0.2830	7.28	15.8	73	34	1900	6.1				0.222	
228	235	MP	99.0 Sn	25.0 Ag	450		0.2819	7.83										
130	237	143	99.0 Sn	10.0 Ag	459	289	0.2724	7.54	22.1	87	15	1650	1800	61	2.7	note 2		Has nearly the wettability and low temperature malleability of indium. Solders silver, feed glass, and ceramics. Large plastic range
131	238	183	99.0 Sn	4.0 Ag	460	361	0.3125	8.26										High temperature electrical solder
132	240	221	99.0 Sn	3.0 Ag	460	400	0.2823	7.28	10.1	44	25	540	4500	3.34	25	12		High temperature electrical solder
133	240	235	99.0 Sn	5.0 Ag	464	455	0.2819	7.25	11.9	28	31	5000	6000	38	13.1	0.23		High temperature electrical solder
134	243	185	60.0 Pb	39.0 Sn	469	365	0.3105	8.39										Lead-free, used in food equipment, potable water systems, and refrigeration tubing. Good wettability and creep resistance
135	247	183	60.0 Pb	39.0 Sn	477	361	0.3432	9.50										
236	247	237	60.0 Pb	39.0 Sn	477	459	0.3738	10.25										
138	250	185	60.0 Pb	30.0 Sn	482	365	0.3479	9.83										
139	251	134	99.0 Sn	1.0 Ag	484	273	0.3453	9.84										
210	253	179	70.0 Pb	27.0 Sn	487	354	0.3555	9.84										
231	255	245	60.0 Pb	30.0 Sn	491	473	0.3749	10.26	6									
541	257	183	70.0 Pb	30.0 Sn	496	361	0.3512	9.72	9.3	41	26	5000	4000	3.05	18	12	0.9	0.15
142	260	179	60.0 Sn	47.0 Pb	500	354	0.3201	8.66										
16	260	240	70.0 Pb	30.0 Sn	500	464	0.3802	9.97	4.6	18	26	5400	3520	47.5	10.2	note 2		Minimizes gold leaching characteristics. Good thermal fatigue properties. Very good resistance to alkaline corrosion
143	260	222	99.0 Sn	10.0 Ag	500	498	0.3920	10.60										
144	263	194	72.0 Pb	28.0 Sn	504	363	0.3870	9.88										
252	266	205	62.0 Cd	17.0 Zn	511	511	0.3017	8.35										
146	268	183	70.0 Pb	30.0 Sn	514	361	0.3599	9.96										
148	270	184	70.0 Pb	20.0 Sn	516	363	0.3971	10.16										
148	271	MP	100.0 Sn		520		0.3841	9.80										
239	272	250	90.0 Sn	10.0 Sb	522	482	0.2916	7.24										
168	276	240	80.0 Pb	18.0 Sn	527	500	0.3711	10.27	4.5	17	27	5500						
149	280	183	60.0 Pb	25.0 Sn	528	361	0.3568	10.21	8.7	27	27	4800	3000	2.9	20	11	0.15	
152	285	239	92.0 Pb	8.0 Sn	545	462	0.3609	10.82										
153	286	239	92.0 Pb	8.0 Sn	550	355	0.3542	10.81										
154	289	179	97.0 Pb	4.0 Sn	552	354	0.3348	9.25										
155	292	MP	99.0 Sn	5.0 Ag	555	315	0.3595	10.70	8.5	27	29	4700	4470					
155	292	MP	99.0 Sn	5.0 Ag	558		0.3974	11.00	25	27								
157	295	252	90.0 Sn	10.0 Sb	563	488	0.3980	10.99										
141	295	221	99.0 Sn	2.0 Ag	565	549	0.3969	11.00	8.6	39	4210	2240	2					
159	300	227	97.0 Sn	3.0 Cu	572	441	0.2845	7.32										
159	302	302	90.0 Sn	10.0 Cu	576	527	0.3884	10.73	8.9	25	29	4400	2400	2.78	30	10		
242	302	275	88.5 Pb	10.0 Sn	579	527	0.4094	11.30	8.6									
141	303	303	60.0 Pb	30.0 Sn	579	570	0.4047	11.20										
163	304	MP	90.0 Sn	10.0 Cu	579		0.4000	11.07										
165	309	302	97.5 Pb	1.5 Ag	588	588	0.4075	11.28	6	23	30	4420						
152	310	240	90.0 Sn	10.0 Cu	590	554	0.3535	11.00	8.6	25	27	3780	3180	23	6	note 2		High temperature solder, frequently used in semiconductor assembly. Often used in reducing atmospheres such as 12% hydrogen. Slightly better corrosion resistance than #101
164	310	300	92.0 Pb	6.0 Sn	590	572	0.3982	11.02	5.5	25	25	4500	2850					
161	312	308	90.0 Pb	8.0 Sn	594	548	0.3996	11.06	8.8	23	30	4000	2500	45	8	note 2		Good thermal fatigue. Minimal gold leaching properties of indium-lead alloys. Often used in reducing atmospheres such as 12% hydrogen
11	313	300	90.0 Pb	6.0 Sn	595	572	0.3998	11.08	5.1	21	29	4310	3220	62	6	note 2		High temperature 60Sn-40Pb
238	313	313	90.0 Pb	4.0 Sn	595	566	0.3992	11.06										
167	315	MP	90.0 Pb	12.0 Sn	595		0.4047	11.20										
168	320	300	90.0 Pb	10.0 Sn	608	572	0.4007	11.20										
169	322	310	90.0 Pb	1.0 Sn	612	590	0.4057	11.23										
139	327	MP	100.0 Sn		620		0.4163	11.36	7.9	35	29	1800	1800	2.61	55	4		
172	330	231	90.0 Sn	3.0 Ag	626	448	0.3816	7.26										
173	345	232	90.0 Sn	7.0 Cu	663	450	0.2823	7.28										
181	356	356	90.0 Sn	12.0 Cu	671	673	0.3100	8.87										
184	383	E	303	90.0 Au	885	666	0.6994	16.40										
155	384	355	80.0 Sn	2.0 Ag	687	591	0.4905	11.50										
229	388	304	94.5 Pb	5.0 Ag	689	579	0.4101	11.30	6	23	30	4420						
186	392	E	303	90.0 Au	720	720	0.2955	8.00										
185	395	E	340	90.0 Cu	743	644	0.3154	8.73										
186	424	E	424	80.0 Au	720	720	0.3740	9.71										
177	445	451	70.0 Au	20.0 Sn	869	844	0.4950	13.70										
175	485	451	62.0 Au	18.0 Sn	905	844	0.5303	14.90										
187	529	E	525	40.0 Ag	977	977	0.3823	10.58										
188	577	E	577	80.0 Al	1,071	1,071	0.0901	2.96										
199	585	521	30.0 Al	34.0 Sn	1,085	970	0.0994	2.78										
199	610	577	92.0 Al	3.0 Sn	1,130	1,071	0.0956	2.68										
216	620	605	40.0 Ag	24.0 Cu	1,148	1,121	0.0921	2.15										
181	630	577	92.0 Al	3.0 Sn	1,169	1,071	0.0972	2.69										
214	635	625	90.0 Ag	10.0 Cu	1,175	1,167	0.0920	2.19										
217	650	600	80.0 Ag	20.0 Cu	1,202	1,148	0.0928	2.21										
192	660	MP	100.0 Al		1,220		0.0976	2.70										
218	690	630	60.0 Ag	16.0 Cu	1,274	1,166	0.0928	2.21										
219	700	605	30.0 Ag	24.0 Cu	1,302	1,121	0.0928	2.19										
179	705	603	61.0 Ag	24.0 Cu	1,301	1,177	0.0420	0.48										
211	705	640	90.0 Cu	10.0 Ag	1,301	1,194	0.0703	0.82										
212	710	605	61.0 Ag	27.0 Cu	1,302	1,121	0.0928	2.19										
214	726	603	61.0 Ag	29.0 Cu	1,308	1,172	0.0441	0.58										
183	780	730	72.0 Ag	28.0 Cu	1,438	1,438	0.3617	10.01										