

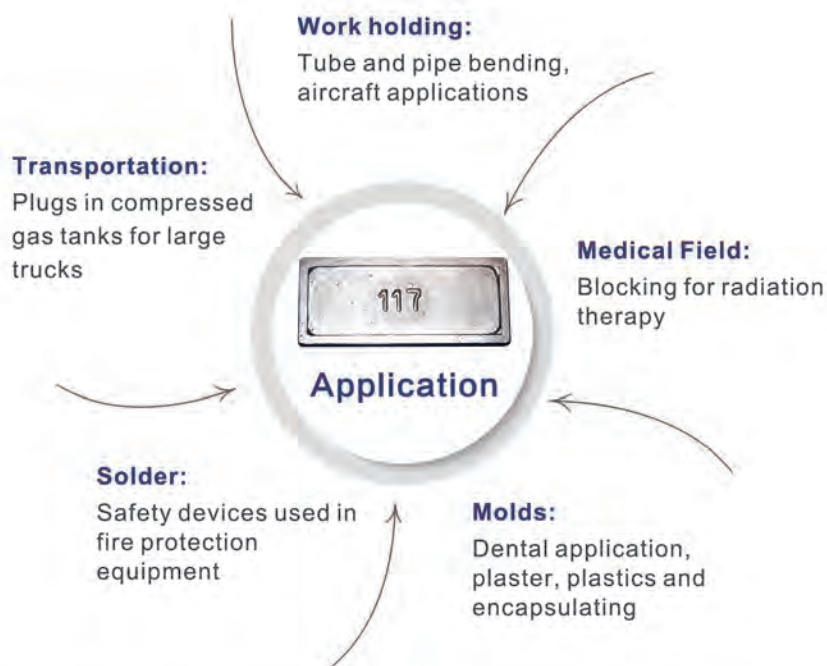


Low Melt Alloys

Vital Materials is a global rare metals oriented materials technology group. Its product covers more than 100 rare metals and their oxides, alloys and compounds. Vital has different fusible alloys listed in its standard specification sheet. Also available are literally hundreds of other low melt alloys that can be developed to meet specific customer requirements. Vital is constantly improving its production control techniques to maximize the performance of its plant and machinery.

What are low melt Alloys?

- ✓ Alloys containing bismuth, other elements in fusible alloys are lead, tin, cadmium and indium
- ✓ Fusible alloys can expand by 3.3% volume when setting from liquid to solid
- ✓ Fusible alloys have unusually low melting temperatures



ALLOY NAME	ALLOY #	Bi	Pb	Sn	Cd	In	Other	Melting Range °F	Yield Temp °F
117	4470-2	44.7	22.6	8.3	5.3	19.1		117-117	117
	4914-1	49.14	17.92	11.55	0.5	20.89		129-133	132
136	4900-2	49	18	12		21		136-136	136
140	4750-2	47.5	25.4	12.6	9.5	5		134-149	140
Fields Metal	3250-1	32.5		16.5		51		139-144	144
147	4800-2	48	25.63	12.77	9.6	4		142-149	147
158	5000-7	50	26.7	13.3	10			158-158	158
Woods Metal	5000-8	50	25	12.5	12.5			158-165	158
	5050-1	50.5	27.8	12.4	9.3			158-163	159



ALLOY NAME	ALLOY #	Bi	Pb	Sn	Cd	In	Other	Melting Range °F	Yield Temp °F
160/190	4250-2	42.5	37.7	11.3	8.5			160-190	165
174	5700-1	57		17		26		174-174	174
	5000-3	50	39	3	8			170-180	179
	5108-1	51.08	39.8		8.12	1		188-192	190
	5160-1	51.6	40.2		8.2			197-197	197
203	5250-1	52.5	32	15.5				203-203	203
	5600-1	56	22	22				203-219	205
Rose Metal	5000-22	50	28	22				212-212	212
	5220-2	52.2	37.8	10				208-221	212
	5400-1	54		26	20			216-217	217
	5452-2	54.52	39.48	6				215-226	219
	5298-1	52.98	42.49	4.53				217-243	227
	4800-1	48	28.5	14.5			9.00 Sb	217-440	241
	5500-1	55	44	1				242-248	246
	5500-3	55	44			1		248-250	249
Seal	0000-18			50		50		240-260	244
	0000-42			48		52		244-244	244
255	5550-1	55.5	44.5					255-255	255
	5800-1	58	42					255-259	256
281	5800-2	58		42				281-281	281
	6000-1	60			40			291-291	291
.281-338	4000-4	40		60				281-338	302
	0400-1	4	55.5	40.5				338-388	343
	0000-26A		36.1	62.5			1.4Ag	355-355	355
	0000-25		37	63				361-361	361
	0000-14		91				9 Zn	389-389	389

Other special alloys available on request.



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