Pb-Sc (Lead-Scandium)

H. Okamoto

The Pb-Sc phase diagram (Fig. 1) was first determined by [95Pal] using DTA, XRD, metallography, and electron microscopy.

Pb-Sc crystal structure data are summarized in Table 1.

Cited References

65Jei: W. Jeitschko and E. Parthe, *Acta Crystallogr., 19*(2), 275-277 (1965).

95Pal: A. Palenzona and P. Manfrinetti, *J. Alloy. Compd., 220*, 157-160 (1995).

Table 1 Pb-Sc Crystal Structure Data

Phase	Composition, at.% Sc	Pearson symbol	Space group	Strukturbericht designation	Prototype	Reference
(Pb)	0	*cF*4	$Fm\bar{3}m$	*A*1	Cu	...
Pb_5Sc_6	54.5	*oI*44	*Ibam*	...	Ti_6Ge_5	[95Pal]
Pb_3Sc_5	62.5	*hP*16	$P6_3mcm$	$D8_8$	Mn_5Si_3	[65Jei]
(αSc)	100	*cI*2	$Im\bar{3}m$	*A*2	W	...
(αSc)	100	*hP*2	$P6_3/mmc$	*A*3	Mg	...

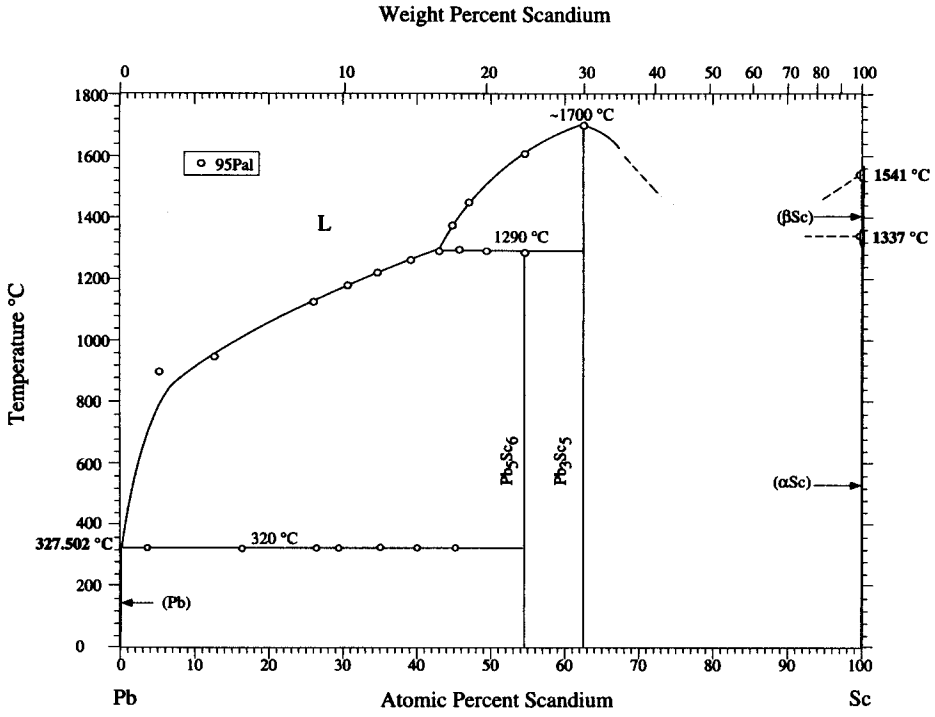

Fig. 1 Pb-Sc phase diagram.