Pb-Sb (Lead-Antimony)

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The Pb-Sb system was critically evaluated by [1981Ash] and the assessed phase diagram was adopted by [Massalski2].

Since then, [1995Oht] determined the (Sb) solidus by means of EPMA (electron probe micro analysis) and found that the solubility of Pb in (Sb) at the $L \rightarrow (Pb) + (Sb)$ eutectic temperature is about half of the value estimated by [1981Ash]. [1995Oht] reported a revised Pb-Sb phase diagram. More recently, [2009Has] improved this phase diagram further by using new literature data on thermodynamic properties, their own DSC data and enthalpy of mixing data, and thermodynamic modeling. The result is shown in Fig. 1.

References

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Fig. 1 Pb-Sb phase diagram