

A short comment to the polemic between F.E. Wang and A.D. Pelton—C.W. Bale in *J. Phase Equilibria.*, 2003, 24(4), pp. 293-306.

Together with H.U. Borgstedt, I was involved in a critical evaluation project of solubility of metals in liquid alkali metals (quoted as [1996Bor]). In our assessment of the Li-Sr solubility system inserted therein, we expressed similar reservations to the Wang's equilibrium diagram as Pelton-Bale had done previously.

In the recent discussion, none of the parties quoted the experimental paper of P. Hubberstey and P.G. Roberts,

published in *J. Phase Equilibria*, 1994, 15(5), pp. 473-78, which was concerned with the phase relations in 0-12 at.% Sr range of the Li-Sr system (specially purified). These experiments show the liquidus line between the melting point of Li and the eutectic point as an almost straight line predicted earlier by Pelton-Bale; this part of the liquidus plotted by Wang was convex. Moreover, the composition of the eutectic is at 10 at.% Sr instead of 12 at.% as may be read from the Wang diagram.

It is not taken for granted that the Sr-rich side of the Wang's diagram may contain errors but it is more likely that

Comments on the Li-Sr System

the alternate suppositions of Pelton-Bale, expressed in their assessment, are right.

1996Bor: H. Borgstedt and C. Guminski: "Critical Evaluation (Sr-Li System)" in *Metals in Liquid Alkali Metals, Part I, of the Solubility Data Series*, Vol. 63, Oxford University Press, Oxford, UK, 1996.

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