



Fig. 1 Al-Nd phase diagram.

[90Kon], the (Al)-rich eutectic point is 2.5 at.% Nd and 632 °C, which is thermodynamically more plausible. Fig. 1 shows an Al-Nd phase diagram with modified liquidus boundaries up to ~20 at.% Nd based on the data of [90Kon]. Crystal structure data (Table 1) are from [89Gsc].

Cited References

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B-Ga (Boron-Gallium)

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The B-Ga phase diagram in [Massalski2] was redrawn from [Moffatt], which was based on the prediction of [65Wal] that the diagram is monotectic. [Moffatt] drew the boundaries of liquid B so that they are conceivable only if the gas phase develops a miscibility gap. In addition, the solubility of Ga in liquid B is increasing with increasing temperature. Because the phase in equilibrium with liquid B is not liquid but gas, the solubility of Ga must decrease at higher temperature [91Oka]. A modified phase diagram is shown in Fig. 1. The boiling point of B is 4002

°C [Massalski2]. The allotropic transformation of B shown in [Moffatt] is omitted in Fig. 1.

Cited References

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