Bi-Ni (Bismuth-Nickel)

H. Okamoto

The Bi-Ni phase diagram in [Massalski2] was adopted from [1985Nas]. Since then, [1988Fes] and [2005Vas] reported experimental phase boundary data.

This system was thermodynamically assessed by [2005Vas], [2007Seo], [2007Vas], and [2009Vas] by incorporating the results of [1988Fes] and [2005Vas]. However, [2011Wan] found inconsistencies and problems in the thermodynamic models used in these works. Figure 1 shows the Bi-Ni phase diagram revised by [2011Wan], who took into account the heat capacity data as well for the BiNi phase reported by [1999Per].

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Fig. 1 Bi-Ni phase diagram