Al-V (Aluminum-Vanadium)

H. Okamoto

The Al-V phase diagram in [Massalski2] was adopted from [1989Mur], who assessed this system mainly *via* the work of [1955Car] and [1959Bai]. Part of the [1989Mur] diagram is shown in Fig. 1 with dashed lines. [2000Ric] reinvestigated the Al-V phase diagram in the composition range between 0 and 50 at.% V using differential thermal analysis, x-ray diffraction, and electron probe microanalysis. The result is shown with solid lines in Fig. 1. The difference between [1989Mur] and [2000Ric] is significant particularly with regard to the melting temperatures of Al_3V and Al_8V_5 . Experimental data are needed for the

(V) liquidus and solidus to complete the diagram of [2000Ric].

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Fig. 1 Al-V phase diagram