Mg-Mn (Magnesium-Manganese)

H. Okamoto

[Massalski2] shows only a partial phase diagram on the Mg-rich side (0-3 at.% Mn) accepted from [1985Nay].

Figure 1 shows the complete Mg-Mn phase diagram obtained by DTA measurements and thermodynamic calculations by [2005Gro]. [2009Asg] obtained a very similar result also by thermodynamic calculations.

2005Gro: J. Gröbner, D. Mirkovic, M. Ohno, and R. Schmid-Fetzer, Experimental Investigation and Thermodynamic Calculation of Binary Mg-Mn Phase Equilibria, *J. Phase Equilib. Diffus.*, 2005, **26**(3), p 234-239

2009Asg: M. Asgar-Khan and M. Medraj, Thermodynamic Description of the Mg-Mn, Al-Mn, and Mg-Al-Mn Systems Using the Modified Quasichemical Model for the Liquid Phase, *Mater. Trans.*, 2009, **50**(5), p 1113-1122

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1985Nay: A.A. Nayeb-Hashemi and J.B. Clark, The Mg-Mn (Magnesium-Manganese) System, *Bull. Alloy Phase Diagr.*, 1985, **6**(3), p 238-244

Fig. 1 Mg-Mn phase diagram