Ru-U (Ruthenium-Uranium)

H. Okamoto

The Ru-U phase diagram in [Massalski2] was as assessed by [1982Chi]. Since then, new experimental data were published by [1994Mas] for the composition range 0-50 at.% U.

Figure 1 shows the Ru-U phase diagram calculated by [2011Ber]. This phase diagram is still qualitative due to inconsistency among the experimental phase boundary data.

1994Mas: R.E. Mason and M.S. El Genk, Experimental Investigation of the Ruthenium-Uranium and Rhenium-Uranium Binary Systems, *J. Nucl. Mater.*, 1994, **217**(3), p 304-321

2011Ber: A. Berche, N. Dupin, C. Guénau, C. Rado, B. Sundman, and J.C. Dumas, Calphad Thermodynamic Description of Some Binary Systems Involving U, *J. Nucl. Mater.*, 2011, **411**, p 131-143

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1982Chi: P. Chiotti, V.V. Akhachinski, I. Ansara, and M.H. Rand, The Ru-U (Ruthenium-Uranium) System, *Bull. Alloy Phase Diagr.*, 1982, **2**(4), p 490-491

Fig. 1 Ru-U phase diagram