

Ac – X binary systems

Ac – Ag (Actinium – Silver)

Phase diagram

Searching for correlation between the position of the components of a binary metallic system in the periodic chart of the elements with the type and the half-quantitative behavior of the binary phase diagram of this system, Gulyaev et al. [68 Gul] have found by empiric interpolation that in combining of Ac with Ag there is to expect an eutectic at about 1143 K and 99 at% Ag. At this temperature, again found by an analogous procedure, a solubility was predicted of Ac in solid (Ag) up to an amount of 0.01 at%.

A short discussion is given by Okamoto in [Massalski].

Reference

- [68 Gul] Gulyaev, B.B., Dvorshkaya, G.F., in: “Phase Diagrams of Metallic Systems”, Savitskii, E.M., (ed.), Moscow, Nauka Publ., (1968), p. 267
- [Massalski] Massalski, T.B., (ed.): Binary Alloy Phase Diagrams, second edition, The Materials Information Society, ASM International Materials Park, Ohio, (1992)