

Al – Sm (Aluminum – Samarium)

Thermodynamics

Using a direct isoperibolic differential calorimeter Borzone et al. [95 Bor] have determined enthalpies of formation of intermediate phases of this system at 573 K. The results are given in Table 1.

Table 1. Al–Sm. Enthalpies of formation of intermediate phases [95 Bor].

Phase	Enthalpy of formation [kJ g-atom ⁻¹]
AlSm ₂	- 38.0 ± 2
AlSm	- 49.0 ± 2
Al ₂ Sm	- 55.0 ± 2
Al ₃ Sm	- 48.0 ± 2

Reference

[95 Bor] Borzone, G., Cardinale, A.M., Saccone, A., Ferro, R.: J. Alloys and Comp. **220** (1995) 122