

Ag – Nd (Silver – Neodymium)

Thermodynamics

Using high-temperature direct synthesis calorimetry Fitzner et al. [94 Fit] have determined the enthalpies of formation of $\text{Ag}_{51}\text{Nd}_{14}$ and AgNd at 1473 K. The results are shown in Table 1.

Table 1. Ag-Nd. Enthalpies of formation of intermediate phases at 1473 K in kJ g-atom^{-1}

Phase	ΔH^{S}
$\text{Ag}_{51}\text{Nd}_{14}$	27.9 ± 1.5
AgNd	30.3 ± 3.4

The same authors applying the same methods have determined enthalpies of mixing of liquid alloys. The data obtained are given in Fig. 1.

Figure

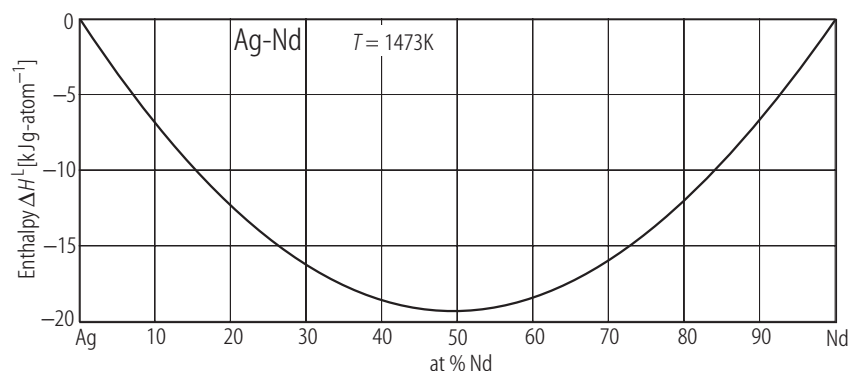


Fig. 1. Ag-Nd. Enthalpies of mixing of liquid alloys at 1473 K [94 Fit].

Reference

[94 Fit] Fitzner, K., Kleppa, O.J.: Metallurg. and Materials Trans. A **25A** (1994) 1495