

Au – Ni (Gold – Nickel)

Thermodynamics

Recently, thermodynamic properties have been determined by Bienzle et al. [95 Bie]. There are Fig. 1 (thermodynamic activities in the solid state), Fig. 2 (thermodynamic activities in the liquid state), Fig. 3 (enthalpy of formation of solid solutions), Fig. 4 (excess entropy of solid solutions), and Fig. 5 (thermodynamic function of liquid alloys: ΔG^L , ΔH^L , ΔS^L).

Figures

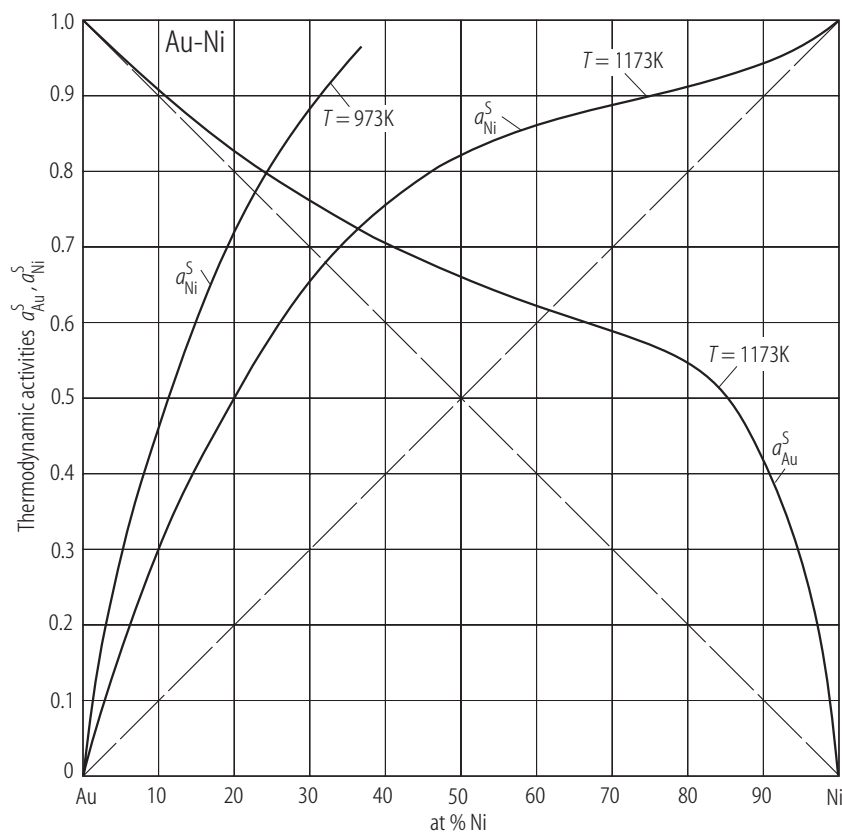


Fig. 1. Au–Ni. Thermodynamic activities of solid alloys [95 Bie].

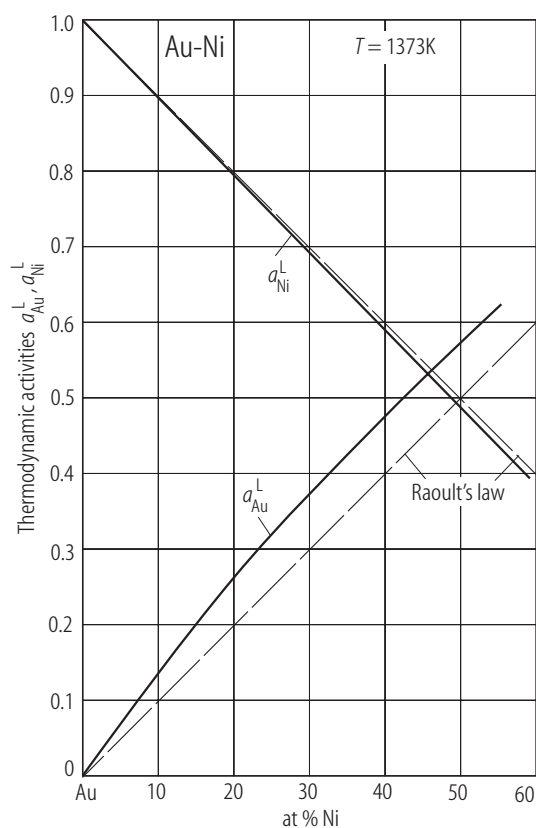


Fig. 2. Au–Ni. Thermodynamic activities of liquid alloys [95 Bie].

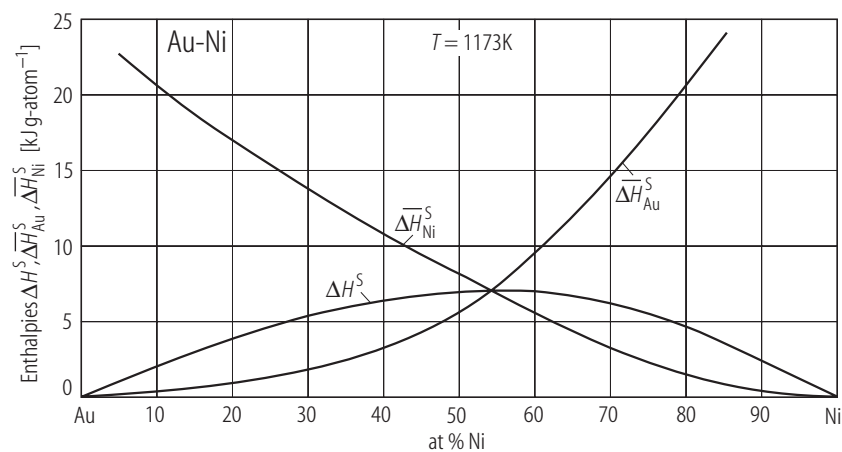


Fig. 3. Au–Ni. Enthalpies of formation of solid alloys [95 Bie].

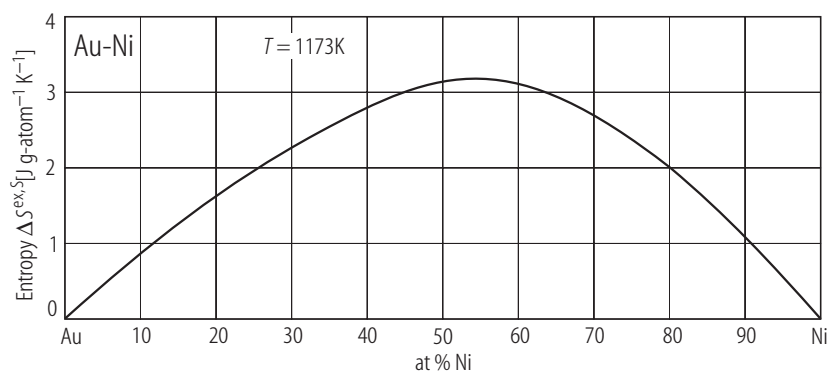


Fig. 4. Au–Ni. Excess entropies of solid alloys [95 Bie].

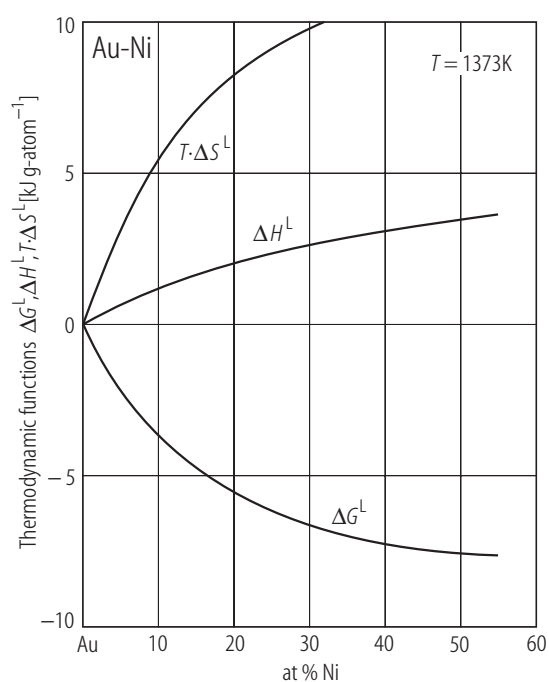


Fig. 5. Au–Ni. Thermodynamic functions of liquid alloys [95 Bie].

Reference

[95 Bie] Bienzle, M., Oishi T., Sang, R.: J. Alloys and Comp., **220** (1995) 182