

# Rh-Ti (Rhodium-Titanium)

H. Okamoto

The Rh-Ti phase diagram in [Massalski2] was redrawn from [1987Mur]. Most phase boundaries were speculative due to controversial experimental data reported earlier by [1966Rau] and [1972Ere].

[2006Bal] reexamined this system by means of electron probe microanalysis, X-ray, diffraction and differential scanning calorimetry. Figure 1 shows the Rh-Ti phase diagram proposed by [2006Bal]. The liquidus and solidus boundaries are mostly adopted from [1966Rau]. Phase boundaries among solid phases are substantially different from both [1966Rau] and [1972Ere].

## References

- 1966Rau:** E. Raub and E. Roschel, The Titanium-Rhodium Alloys. *Z. Metallkd.*, 1966, **57**, 546–551, in German
- 1972Ere:** V.N. Eremenko and R.D. Shtepa, Phase Equilibria in the Binary Systems of Titanium with Ruthenium, Osmium, Rhodium, Indium, and Palladium. *Colloz. Int. CNRS*, 1972, **205**, 403–413, in German
- 1987Mur:** J.L. Murray, The Rh-Ti (Rhodium-Titanium) System. In: J.L. Murray (ed), *Phase Diagrams of Binary Titanium Alloys*. ASM International, Metals Park, OH, 1987, pp 263–269
- 2006Bal:** J. Balun and G. Inden, Phase Equilibria in the Binary Rh-Ti System. *Intermetallics*, 2006, **14**, 260–271

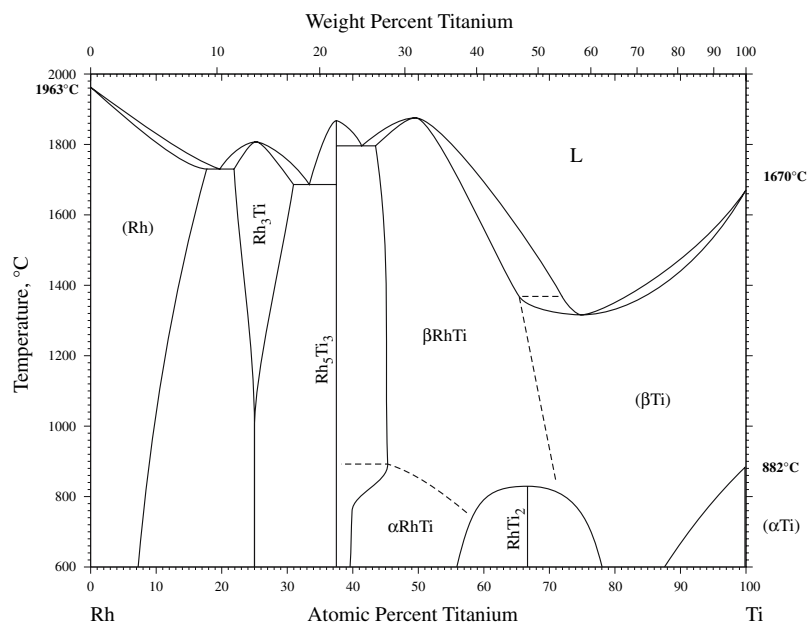


Fig. 1 Rh-Ti phase diagram