

In-Pt (Indium-Platinum)

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The In-Pt phase diagram in [Massalski2] was reproduced from [1992Oka]. In₂Pt was shown to decompose by a eutectoid reaction on cooling at 674 °C.

[2004Pat] questioned the existence of this reaction based on reports on ternary phase diagrams, including In-Pt, and investigated the phases existing in variously heat-treated In₂Pt samples by powder x-ray diffraction. The result showed that In₂Pt is stable at least down to 400 °C. The diagram of [1992Oka] is modified accordingly in Fig. 1.

References

1992Oka: H. Okamoto, In-Pt (Indium-Platinum), *Phase Diagrams of Indium Alloys and Their Engineering Applications*, C.E.T. White and H. Okamoto, Ed., ASM International, 1992, p 216-219

2004Pat: M. Patrone, K.W. Richter, G. Borzone, and H. Ipser, On the Low Temperature Stability of In₂Pt, *J. Alloys Compd.*, Vol 365, 2004, p L4-L6

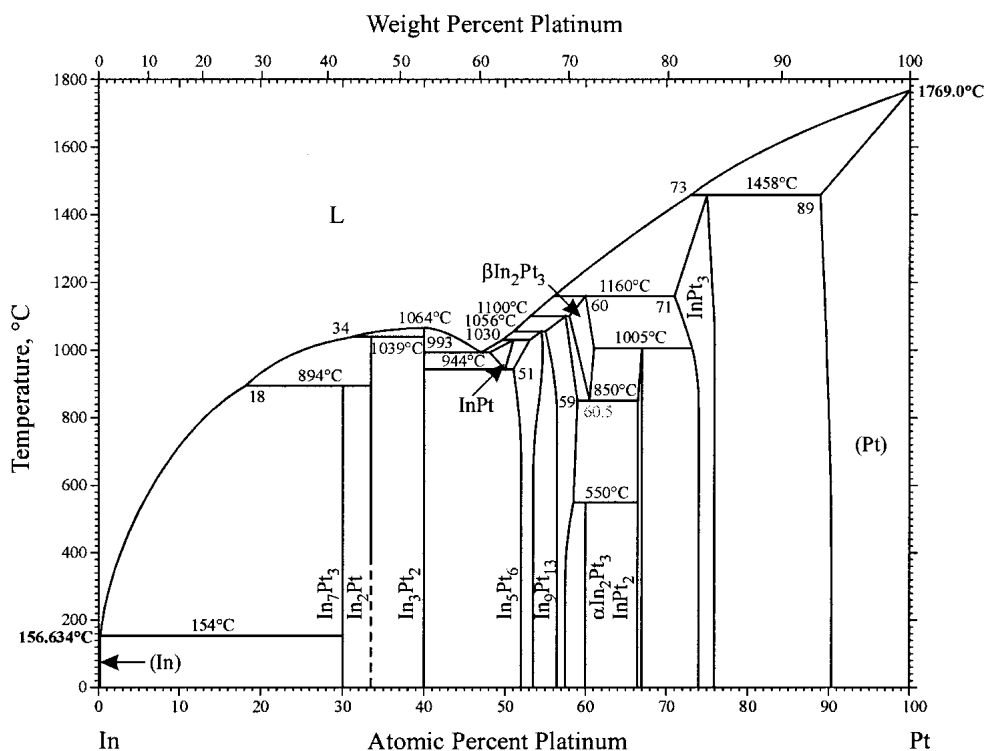


Fig. 1 In-Pt phase diagram