

Y-Zn (Yttrium-Zinc)

H. Okamoto

The Y-Zn phase diagram in [Massalski2] was redrawn from [1976Mas] with a modification from YZn_6 to YZn_5 .

Thermodynamic assessment of this system was reported by [2006Sha] and [2006Liu, 2006Wen] independently. The calculated phase diagrams are very similar. The diagram of [2006Wen] is shown in Fig. 1 because the calculated results are reported in more detail.

References

1976Mas: J.T. Mason and P. Chiotti, Phase Diagram and Thermodynamic Properties of the Yttrium-Zinc System, *Metall. Trans. A*, 1976, 7(2), p 287-291

2006Sha: G. Shao, V. Varsani, and Z. Fan, Thermodynamic Modeling of the Y-Zn and Mg-Zn-Y Systems, *Calphad*, 2006, 30(3), p 286-296

2006Liu: X. Liu, C. Wang, M. Wen, X. Chen, and F. Pan, Thermodynamic Database of the Phase Diagrams in the Mg-Al-Zn-Y-Ce System, *Rare Metals*, 2006, 25(5), p 441-447

2006Wen: M.Z. Wen, X.J. Liu, C.P. Wang, and F.S. Pan, Thermodynamic Assessment of the Zn-Y and Al-Zn-Y Systems, *Proc. 13th National Symp. Phase Diagrams*, Xiamen, China, 2006, p 190-193

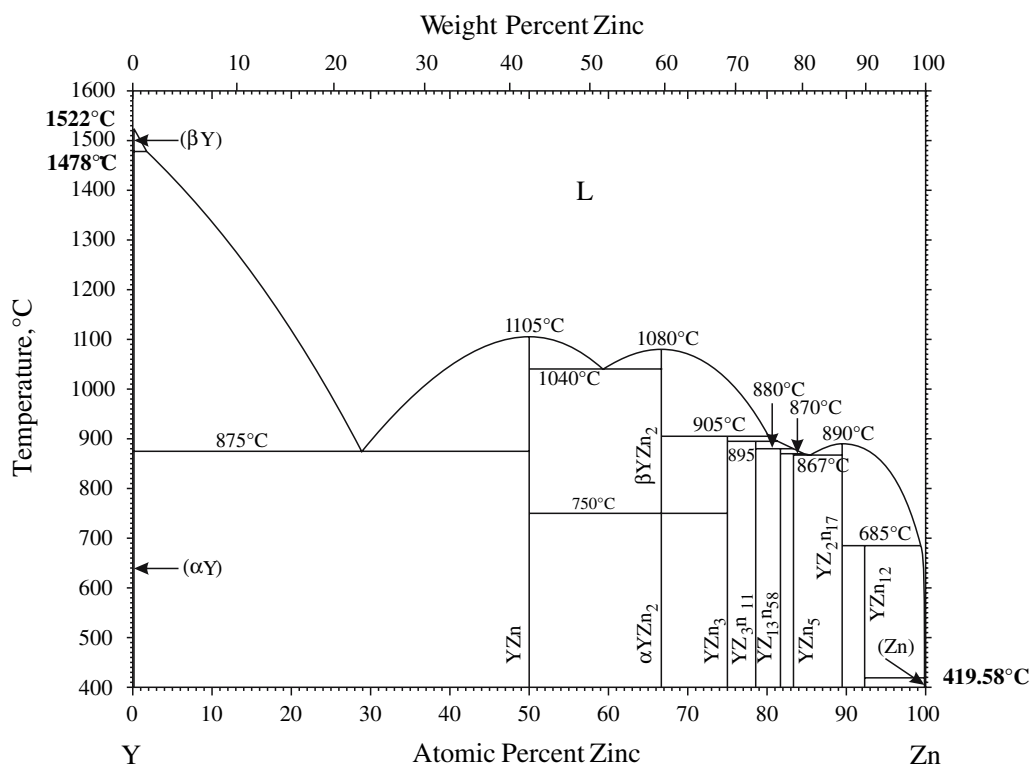


Fig. 1 Y-Zn phase diagram