

# Fe-Zn (Iron-Zinc)

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The Fe-Zn phase system was critically evaluated by [1993Bur].

Since then, [2000Reu], [2001Su], and [2005Nak] phase diagrams similar to that of [1993Bur] by thermodynamic

modeling. Figure 1 shows the most recent Fe-Zn phase diagram calculated by [2005Nak], which is expected to be a better presentation of numerous data points. Figure 2 shows the detail of Fig. 1 on the Zn corner.

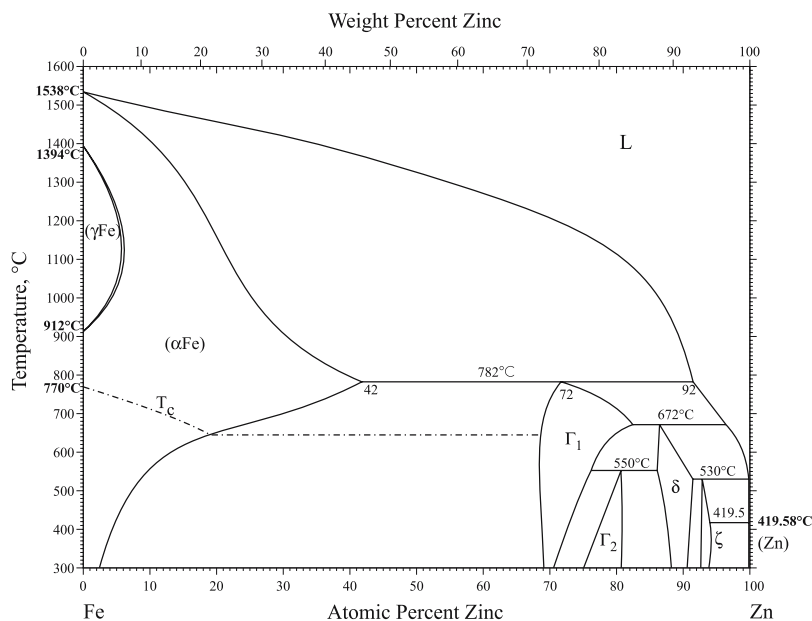


Fig. 1 Fe-Zn phase diagram

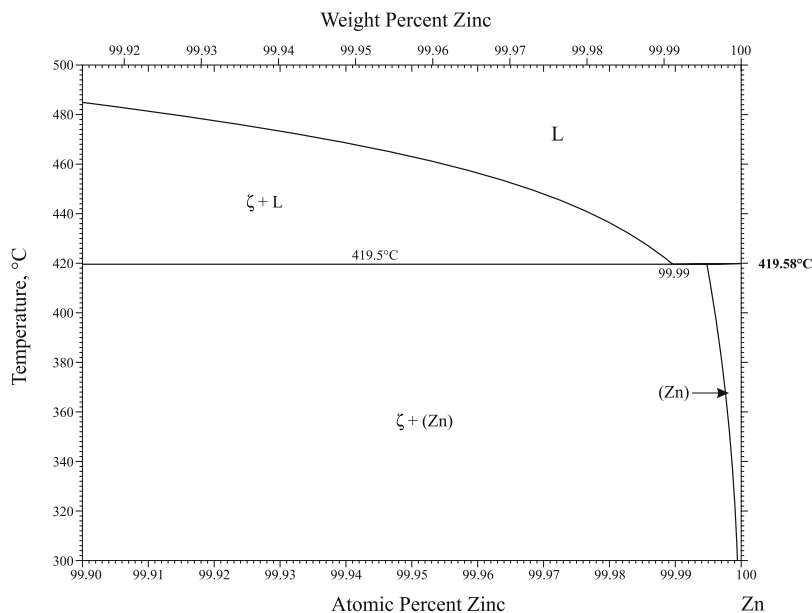


Fig. 2 Detail of Fig. 1 on the Zn side

### Section III: Supplemental Literature Review

#### References

- 1993Bur:** B. Burton and P. Perrot, Fe-Zn (Iron-Zinc), in *Phase Diagrams of Binary Iron Alloys*, H. Okamoto, ed. ASM International, Materials Park, OH, 1993, pp. 459-466
- 2000Reu:** G. Reumont, P. Perrot, J.M. Fiorani, and J. Hertz, Thermodynamic Assessment of the Fe-Zn System, *J. Phase Equilib.*, 2000, **21**(4), p 371-378
- 2001Su:** X. Su, N.Y. Tang, and J.M. Toguri, Thermodynamic Evaluation of the Fe-Zn System, *J. Alloy. Compd.*, 2001, **325**, p 129-136
- 2005Nak:** J. Nakano, D.V. Malakhov, and G.R. Purdy, A Crystallographically Consistent Optimization of the Zn-Fe System, *Calphad*, 2005, **29**, p 276-288