

# Co-Zn (Cobalt-Zinc)

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The Co-Zn phase diagram in [Massalski2] was drawn based on several old data published before 1976.

Figure 1 shows the Co-Zn phase diagram calculated by [2004Vas]. The  $\gamma_1$ ,  $\gamma_2$ , and  $\delta$  phases were assumed to be line compounds. ([Massalski2] showed ~1 at.% solubility ranges for these phases.) New features in this phase diagram unknown in [Massalski2] are the formation of ferromagnetic + paramagnetic ( $\alpha$ Co) two-phase field and the ( $\alpha$ Co) = ( $\epsilon$ Co) +  $\beta_1$  eutectoidal reaction. The locations of

these reactions in the phase diagram must be confirmed experimentally.

## References

**2004Vas:** G.P. Vassilev and M. Jiang, Thermodynamic Optimization of the Co-Zn System, *J. Phase Equilib. Diffus.*, 2004, **25**(3), p 259-268

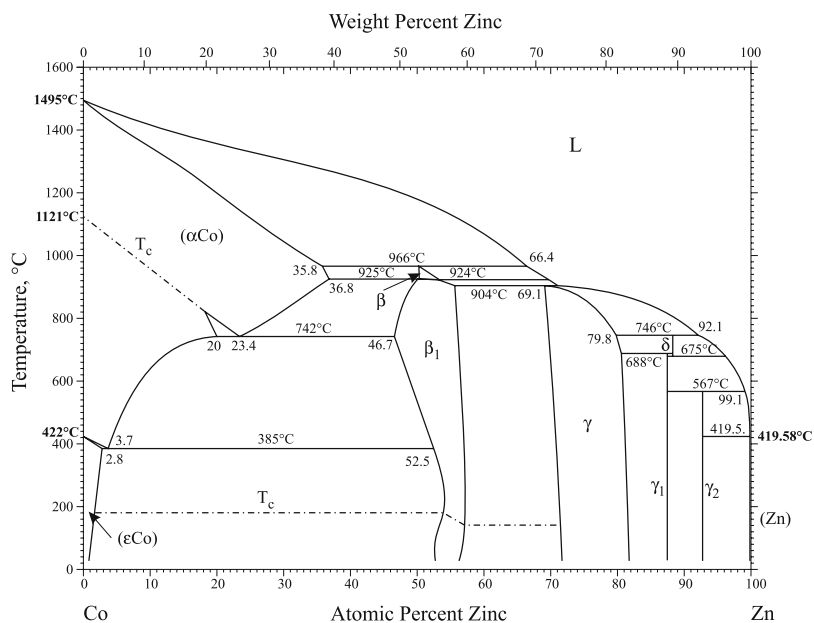


Fig. 1 Co-Zn phase diagram