

Cu-V (Copper-Vanadium)

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The Cu-V phase diagram shown in [Massalski2] was redrawn from [1981Smi]. This diagram was based on a regular solution model reported by [1977All]. A characteristic feature of this phase diagram was the existence of a flat miscibility gap with the critical temperature below 2000 °C.

More recent thermodynamic evaluations of the Cu-V system by [1990Ham], [2006Tur], and [2008Zha] revealed that the critical temperature was much higher. Figure 1 shows the Cu-V phase diagram calculated by [2008Zha], which is preferred to the others because it is based on more experimental data. Figure 2 shows Cu-rich corner of Fig. 1.

References

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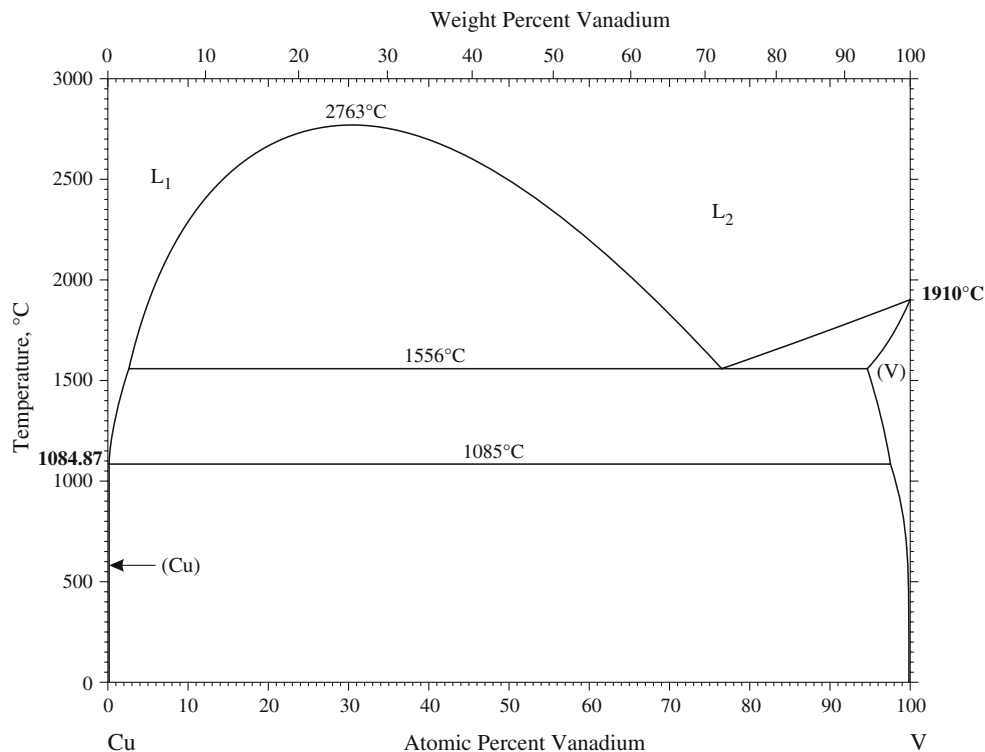


Fig. 1 Cu-V phase diagram

Section III: Supplemental Literature Review

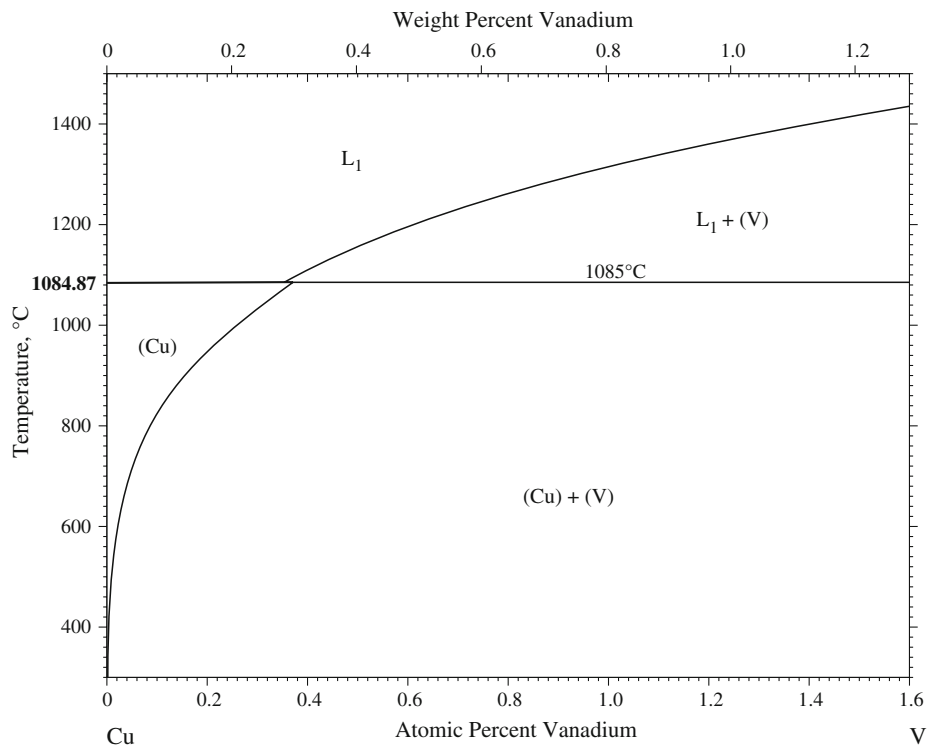


Fig. 2 Cu-rich corner of Fig. 1