

V-W (Vanadium-Tungsten)

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The V-W phase diagram in [Massalski2] is supposed to have been copied from the thermodynamically evaluated diagram of [1989Nag]. However, [1989Nag] showed three different calculated results with, for example, as much as 200 °C difference in the solidus temperature at 50 at.% W. The reason for the difference is not explained.

Figure 1 shows the V-W phase diagram calculated by [2005Bra]. This result is most similar to the phase diagram shown in [Massalski2] among the three phase diagrams presented by [1989Nag].

References

1989Nag: S.V. Nagender Naidu, A.M. Sriramamurthy, M. Vijayakumar, and P. Rama Rao, V-W (Vanadium-Tungsten), *Phase Diagrams of Binary Vanadium Alloys*, J.F. Smith, Ed., ASM International, Metals Park, OH, 1989, p 313-317

2005Bra: J. Bratberg, Investigation and Modification of Carbide Sub-Systems in the Multicomponent Fe-C-Co-Cr-Mo-Si-V-W System, *Z. Metallkd.*, 2005, **96**(4), p 335-344

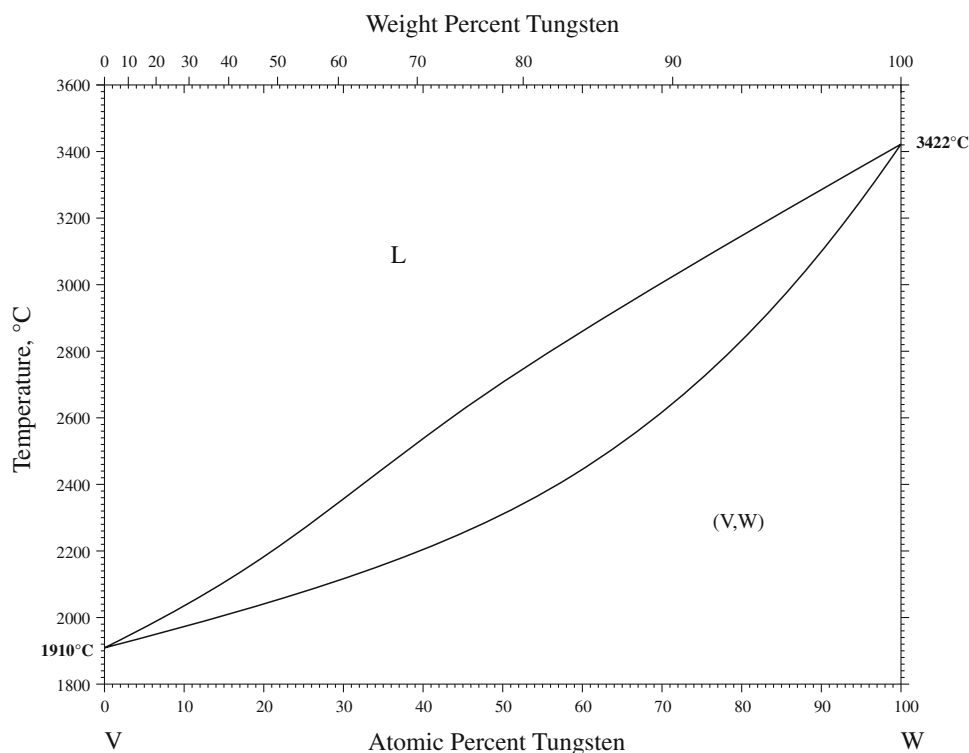


Fig. 1 V-W phase diagram