

U-W (Uranium-Tungsten)

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The U-W phase diagram in [Massalski2] was redrawn from [1988Pan], which was based on [1950Sch], [1972Ack], and [1985Sar]. The data of [1972Ack] are preferred and weighted most heavily. Because the data points given in [1972Ack] were given only for the range < 12.5 at.% W, the phase diagram above 12.5 at.% W was drawn by speculation.

Figure 1 shows the U-W phase diagram calculated by [2008Wan]. In this calculation, the data points reported by [1986Cha] were also used, in addition to those shown in the evaluation by [1988Pan]. The (W) liquidus is higher in the diagram of [2008Wan] than that in the diagram of [1988Pan], up to ~250 °C higher at ~60 at.% W.

References

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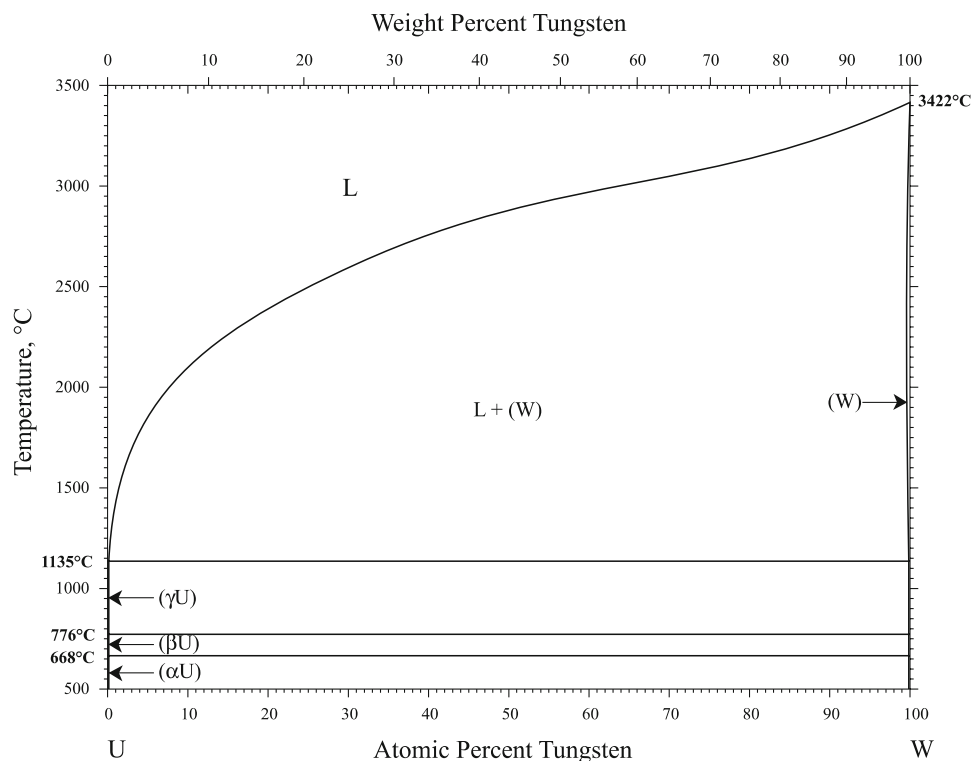


Fig. 1 U-W phase diagram