

O-Pu (Oxygen-Plutonium)

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The Pu-O phase diagram in [Massalski2] was redrawn from [1990Wri]. [2003Kin] and [2008Gue] attempted thermodynamic modeling of this system. The result of [2008Gue] is in good agreement with [1990Wri]. The Pu-O phase diagram calculated by [2008Gue] is shown in Fig. 1. Figure 2 is an enlargement of Fig. 1 for the range from 58 to 68 at.% O.

References

- 1990Wri:** H.A. Wriedt, The O-Pu (Oxygen-Plutonium) System, *Bull. Alloy Phase Diagrams*, 1990, **11**(2), p 184-202
- 2003Kin:** H. Kinoshita, M. Uno, and S. Yamanaka, Phase Relation Assessment of the O-Pu-Zr System by Thermodynamic Modelling, *J. Alloys Compd.*, 2003, **353**, p 129-137
- 2008Gue:** C. Guéneau, C. Chatillon, and B. Sundman, Thermodynamic Modelling of the Plutonium-Oxygen System, *J. Nucl. Mater.*, 2008, **378**, p 257-272

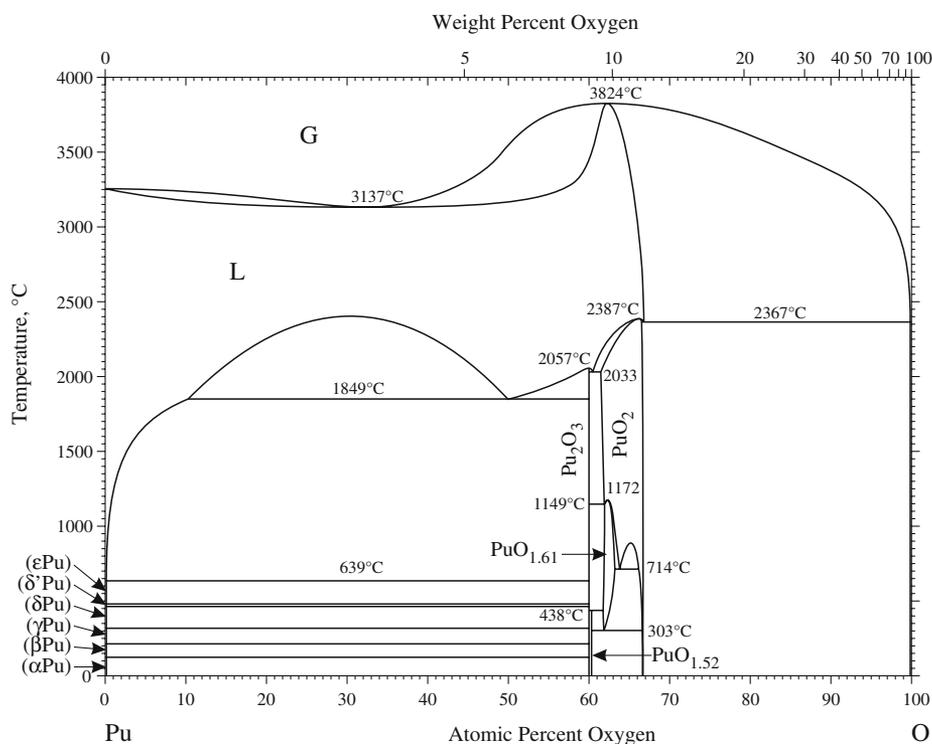


Fig. 1 O-Pu phase diagram

Section III: Supplemental Literature Review

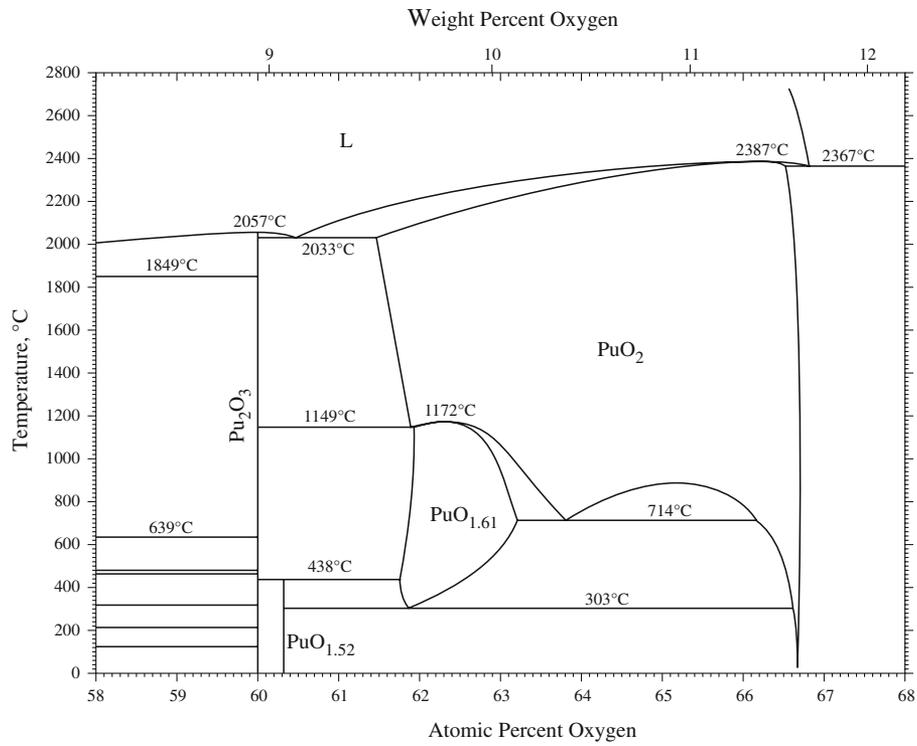


Fig. 2 Enlargement of Fig. 1 for 58 to 68 at.% O