## **C-Ta (Carbon-Tantalum)**

## H. Okamoto

Figure 1 shows the Ta-C phase diagram calculated by [96Fri] by optimization of phase boundary and thermodynamic data available in the literature. In addition to these features, [Massalski2] (adopted from [86Bar]) showed a polymorphic transformation of Ta<sub>2</sub>C at 2020 °C and the existence of  $\zeta$  phase at 40 at. % C. The Ta-C phase diagram assessed by [96Gar] is similar to [Massalski2], but some minor differences, particularly those with regard to the phase relationships of polymorphic Ta<sub>2</sub>C, remain to be resolved.

## **Cited References**

- 86Bar: O.M. Barabash and Yu.N. Koval, Crystal Structures of Metals and Alloys, Naukova Dumka, Kiev, 211-212 (1986).
- **96Fri:** K. Frisk and A. Fernandez Guillermet, *J. Alloy. Compd.*, 238, 167-179 (1996).
- 96Gar: S.P. Garg, M. Venkatraman, and N. Krishnamurthy, *Phase Diagrams of Binary Tantalum Alloys*, Indian Institute of Metals, Calcutta, India, 27-32 (1996).

