

Hg-Tm (Mercury-Thulium)

H. Okamoto

The Hg-Tm system was reviewed by [1995Gum], in which the phase diagram was unknown.

Figure 1 shows a schematic Hg-Tm phase diagram speculated by [2004Gum] by assuming similarity to other Hg-rare earth systems.

Table 1 shows Hg-Tm crystal structure data assembled by [2004Gum].

References

1995Gum: C. Guminski, The Hg-Tm (Mercury-Thulium) System, *J. Phase Equilib.*, 1995, **16**(5), p 459

2004Gum: C. Guminski, Contribution of Electrochemistry to the Knowledge on Structure and Properties of Amalgams, *Polish J. Chem.*, 2004, **78**, p 1733-1751

Table 1 Hg-Tm crystal structure data

Phase	Composition, at.% Tm	Pearson symbol	Space group	Strukturbericht designation	Prototype
(Hg) (a)	0	<i>hR1</i>	$R\bar{3}m$	<i>A10</i>	α Hg
Hg ₃ Tm	25	<i>hP8</i>	$P6_3/mmc$	<i>D0₁₉</i>	Ni ₃ Sn
HgTm	50	<i>cP2</i>	$Pm\bar{3}m$	<i>B2</i>	CsCl
(Tm)	100	<i>hP2</i>	$P6_3/mmc$	<i>A3</i>	Mg

(a) Not shown in Fig. 1

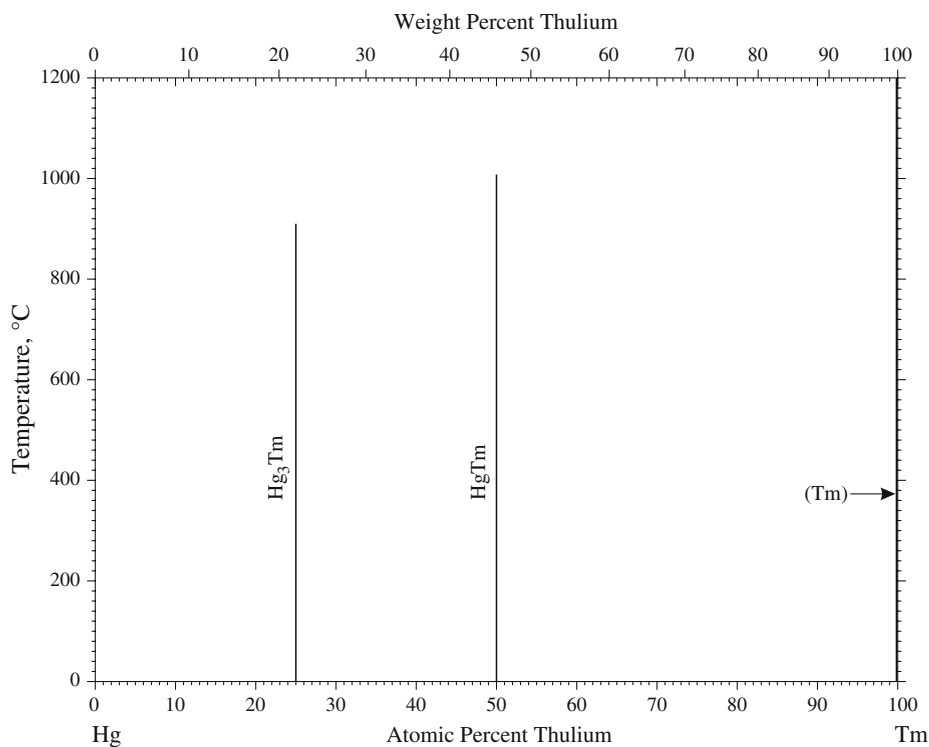


Fig. 1 Hg-Tm phase diagram