

Am – Te (Americium – Tellurium)

Crystal structure

Four intermediate phases have been found. Their crystallographic data are collected in Table 1.

Table 1. Am–Te. Crystal structure of intermediate phases in the Am-Te system (taken from [Pearson] and [Massalski]).

Phase	Structure	Prototype	Lattice parameters [nm]		
			<i>a</i>	<i>b</i>	<i>c</i>
AmTe	cub	NaCl			
Am ₃ Te ₄	cub	P ₄ Th ₃	0.9392		
AmTe ₂	tet	Cu ₂ Sb	0.4358		0.9027
AmTe ₃	ort	NdTe ₃	0.4339	2.557	0.4339

References

- [Massalski] Massalski, T.B., (ed.): “Binary Alloy Phase Diagrams”, Second Edition, The Materials Information Society, ASM International, Materials Park, Ohio (1992)
- [Pearson] Pearson, W.B.: “Handbook of Lattice Spacings and Structure of Metals and Alloys”, Pergamon Press, New York, (1958), Vol. 1, (1967) Vol. 2