

Ag – F (Silver – Fluorine)

Phase diagram

The melting point of liquid Ag is decreasing by solving F. A F-content of 10^{-3} at% is causing a decrease by 10^{-3} K [68 Gul].

The saturated (Ag) solid solution has a content of about 10^{-5} at% F. Melting of (Ag) with maximal F-content occurs at 708 K.

For a short discussion see [Massalski].

Crystal structure

Crystallographic data of intermediate compounds are given in Table 1.

Table 1. Ag–F. Crystallographic data of intermediate phases of the Ag-F system.

Phase	F-content [at%]	Structure	Prototype	Lattice parameters [nm]			Reference
				<i>a</i>	<i>b</i>	<i>c</i>	
Ag ₂ F	33.3	hex	Anti-CdI ₂	0.2996		0.5691	[67 Swa]
AgF	50	cub	NaCl	0.493			[26 Ott]
AgF ₂	66.7	ort		0.5073	0.5529	0.5813	[71 Zem]

References

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