

Pearsons Handbook Of Crystallographic Data For Intermetallic Phases

Table I. Proposals of Rudy and Windisch¹⁰, Rogl and Potter¹¹, Portnoi and Romashov¹² Bitterman and Rogl¹⁴ for the reactions in the Hf-B system.

Reaction	Composition (% at. B)		Temperature (°C)	Reference	Remarks	
L ↔ βHf	0		2231	10	Experimental	
	0		2220	12		
	0		2231	11	Calculated	
	0		2233	14		
βHf ↔ αHf	0		1743	10	Experimental	
	0		1780	12		
	0		-1780	11	Calculated	
	0		1743	14		
βHf _{ss} + HfB ↔ αHf _{ss}	<02	50	<02	1800 ± 15	10	Experimental
	<0.5	50	<0.50	2073 ± 15	11	
	0.70	50	1.50	1791	14	Calculated
βHf _{ss} + HfB ₂ ↔ αHf _{ss}	02	66.67	02	1800 ± 15	12	Experimental
	L ↔ αHf _{ss} + HfB	-13	-02	50	1880 ± 15	
L ↔ αHf _{ss} + HfB ₂	14.40	2	50	1874,70	11	Calculated
	15	1.10	50	1881	14	
	-11	-02	-66.67	1820	12	
L + HfB ₃ ↔ HfB	-24	66.67	50	2100 ± 20	10	Experimental
L ↔ HfB ₂	22.50	66.70	50	2098.70	11	
	22	66.70	50	2104	14	
	66.67			3380 ± 20	10	Experimental
	66.67			3330	12	
	66.67			3380.90	11	Calculated
	66.67			3377	14	
L ↔ HfB ₃ + βB-Rhom	-99	66.67	100	2065 ± 15	10	Experimental
	-99	66.67	100	2065	12	
	97.30	66.70	-98	2065	11	Calculated
	99	66.70	100	2065	14	
L ↔ βB-Rhom	100			2092	10	Experimental
	100			2170	12	
	100			2092	11	Calculated
	100			2075	14	
	HfB + HfB ₂ ↔ HfB ₃	50	66.70	42.85	435.60	
HfB ₃ + βB-Rhom ↔ HfB ₂	66.70	-98	92.31	2058	11	

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