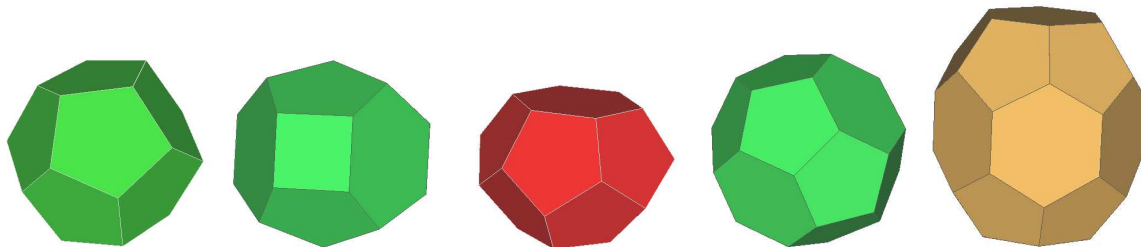


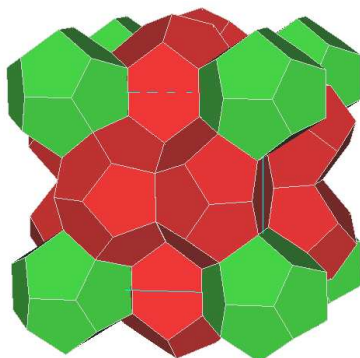
8. Gerüst(Tecto)-Silicate (Forts.)

8.7. Clathrasile

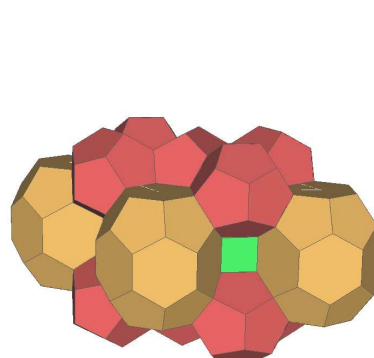
	Käfig:	Zahl der Käfige					
		M <sup>12</sup> [5 <sup>12</sup> ]	M <sup>12b</sup> [4 <sup>3</sup> 5 <sup>6</sup> 6 <sup>3</sup> ]	M <sup>14</sup> [5 <sup>12</sup> 6 <sup>2</sup> ]	M <sup>16</sup> [5 <sup>12</sup> 6 <sup>4</sup> ]	M <sup>20</sup> [5 <sup>12</sup> 6 <sup>8</sup> ]	
		∅:	570 pm	570 pm	580/770 pm	750 pm	
Clathrasil ↓	Gäste →	N <sub>2</sub> , Ar, Xe, CH <sub>4</sub>	N <sub>2</sub> O, CO <sub>2</sub> , Kr, Xe, CH <sub>3</sub> NH <sub>2</sub>	SF <sub>6</sub> , Kr, Xe, CH <sub>3</sub> NH <sub>2</sub> , (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> NH, (CH <sub>3</sub> ) <sub>3</sub> N, Thiophen, Pyridin, Pyrolidin	C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> NH, Cyclohexylamin, Adamantylamin	SiO <sub>2</sub> /EZ ↓	
Melanophlogit	Cr <sub>3</sub> Si	2	-	6	-	-	46
Dodecasil 1H	CaCu <sub>5</sub>	3	2	-	-	1	34
Dodecasil 3C	MgCu <sub>2</sub>	16	-	-	8	-	136



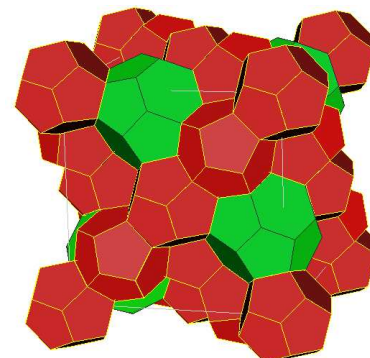
Polyeder der Lücken



Melanophlogit

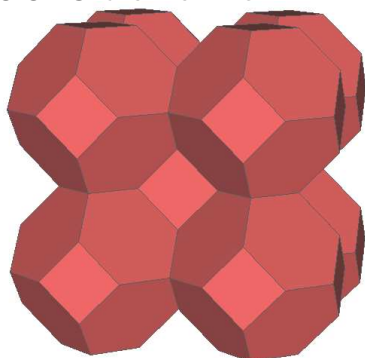


Dodecasil 1H  
Gesamtstrukturen



Dodecasil 3C

8.8. Ultramarine



Struktur der Ultramarine