

Chart 415.03 Rate of Occurrence of Symmetrically Nucleated Polyhedra of Closest Packing

Shell	Vector Equilib.	10F ² +2 Vector Equilib. Cumulative: All Shells	4F ² +2 Octahedron 4(F+2) ² +2	2F ² +2 Tetrahedron 2(F+4) ² +2	12F ² +2 Rhombic Dodecahedron Octa=1/4 Tet × 8	6F ² +2 Cube Vector Equilib. + 1/8 Octa × 8	Icosahedron & Dodecahedron are Inherently Non-Nuclear at All Frequencies
0	zero=2	zero=2	zero=2	zero=2	zero=2	zero=2	
1	12	12					
2	42	54	18				
3	92	146					
			Outer shell 66 Cumulative 84	34	74 92	210 364	
4	162	308					
5	252	560					
						Outer shell 514 Cumulative 1098	
6	362	922					
7	492	1414					
				Outer shell 130 Cumulative 164	386 470		
8	642	2056					
9	812	2868					
10	1002	3870					