

SG No. 184 C_{6v}^2 $P6cc$ [hexagonal]

* plus set: + [0, 0, 0]

Table 1: Wyckoff site: 2a, site symmetry: 6..

No.	position	mapping
1	[0, 0, z]	[1,2,3,4,5,6]
2	[0, 0, $z + \frac{1}{2}$]	[7,8,9,10,11,12]

Table 2: Wyckoff site: 4b, site symmetry: 3..

No.	position	mapping
1	[$\frac{1}{3}, \frac{2}{3}, z$]	[1,2,3]
2	[$\frac{2}{3}, \frac{1}{3}, z$]	[4,5,6]
3	[$\frac{1}{3}, \frac{2}{3}, z + \frac{1}{2}$]	[7,8,9]
4	[$\frac{2}{3}, \frac{1}{3}, z + \frac{1}{2}$]	[10,11,12]

Table 3: Wyckoff site: 6c, site symmetry: 2..

No.	position	mapping
1	[$\frac{1}{2}, 0, z$]	[1,4]
2	[0, $\frac{1}{2}, z$]	[2,5]
3	[$\frac{1}{2}, \frac{1}{2}, z$]	[3,6]
4	[0, $\frac{1}{2}, z + \frac{1}{2}$]	[7,10]
5	[$\frac{1}{2}, 0, z + \frac{1}{2}$]	[8,11]
6	[$\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}$]	[9,12]

Table 4: Wyckoff site: 12d, site symmetry: 1

No.	position	mapping
1	[x, y, z]	[1]
2	[-y, x - y, z]	[2]
3	[-x + y, -x, z]	[3]
4	[-x, -y, z]	[4]
5	[y, -x + y, z]	[5]
6	[x - y, x, z]	[6]
7	[-y, -x, z + $\frac{1}{2}$]	[7]
8	[-x + y, y, z + $\frac{1}{2}$]	[8]
9	[x, x - y, z + $\frac{1}{2}$]	[9]
10	[y, x, z + $\frac{1}{2}$]	[10]
11	[x - y, -y, z + $\frac{1}{2}$]	[11]

$$\begin{array}{c} \hline 12 & [-x,\,-x+y,\,z+\frac{1}{2}] & [12] \\ \hline \end{array}$$