

MPG No. 25.5.150 6'mm' (6'm'm setting) [Type III, hexagonal]

Table 1: Wyckoff site: 1a, site symmetry: 6'm'm

No.	position	mapping
1	[0, 0, z]	[1,2,3,4,5,6,7,8,9,10,11,12]

Table 2: Wyckoff site: 6b, site symmetry: ...m

No.	position	mapping
1	[x, 0, z]	[1,11]
2	[0, x, z]	[2,12]
3	[-x, -x, z]	[3,10]
4	[-x, 0, z]	[4,8]
5	[0, -x, z]	[5,9]
6	[x, x, z]	[6,7]

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

No.	position	mapping
1	[x, -x, z]	[1,5]
2	[x, 2x, z]	[2,6]
3	[-2x, -x, z]	[3,4]
4	[-x, x, z]	[8,12]
5	[-x, -2x, z]	[9,10]
6	[2x, x, z]	[7,11]

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]	[8]
5	[y, -x + y, z]	[9]
6	[x - y, x, z]	[7]
7	[-y, -x, z]	[5]
8	[-x + y, y, z]	[4]
9	[x, x - y, z]	[6]
10	[y, x, z]	[12]
11	[x - y, -y, z]	[11]

$$\begin{array}{c} \hline & 12 & [-x,\,-x+y,\,z] & [10] \\ \hline \hline \end{array}$$