

# MPG No. 30.1.112 432 [ Type I, cubic ]

Table 1: Wyckoff site: **1o**, site symmetry: 432

No.	position	mapping
1	[0, 0, 0]	[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24]

Table 2: Wyckoff site: **6a**, site symmetry: 4..

No.	position	mapping
1	[x, 0, 0]	[1,2,19,20]
2	[-x, 0, 0]	[3,4,17,18]
3	[0, x, 0]	[9,11,14,16]
4	[0, -x, 0]	[10,12,13,15]
5	[0, 0, x]	[5,8,22,23]
6	[0, 0, -x]	[6,7,21,24]

Table 3: Wyckoff site: **8b**, site symmetry: .3.

No.	position	mapping
1	[x, x, x]	[1,5,9]
2	[-x, -x, x]	[4,8,12]
3	[-x, x, -x]	[3,7,11]
4	[x, -x, -x]	[2,6,10]
5	[x, x, -x]	[16,20,24]
6	[-x, -x, -x]	[13,17,21]
7	[x, -x, x]	[15,19,23]
8	[-x, x, x]	[14,18,22]

Table 4: Wyckoff site: **12c**, site symmetry: ...2

No.	position	mapping
1	[0, y, y]	[1,18]
2	[0, -y, y]	[4,19]
3	[0, y, -y]	[3,20]
4	[0, -y, -y]	[2,17]
5	[y, 0, y]	[9,15]
6	[y, 0, -y]	[10,16]
7	[-y, 0, y]	[12,14]
8	[-y, 0, -y]	[11,13]
9	[y, y, 0]	[5,24]
10	[-y, y, 0]	[7,22]

*continued ...*

Table 4

No.	position	mapping
11	[ $y, -y, 0$ ]	[6,23]
12	[ $-y, -y, 0$ ]	[8,21]

Table 5: Wyckoff site: 24d, site symmetry: 1

No.	position	mapping
1	[ $x, y, z$ ]	[1]
2	[ $-x, -y, z$ ]	[4]
3	[ $-x, y, -z$ ]	[3]
4	[ $x, -y, -z$ ]	[2]
5	[ $z, x, y$ ]	[9]
6	[ $z, -x, -y$ ]	[10]
7	[ $-z, -x, y$ ]	[12]
8	[ $-z, x, -y$ ]	[11]
9	[ $y, z, x$ ]	[5]
10	[ $-y, z, -x$ ]	[7]
11	[ $y, -z, -x$ ]	[6]
12	[ $-y, -z, x$ ]	[8]
13	[ $y, x, -z$ ]	[16]
14	[ $-y, -x, -z$ ]	[13]
15	[ $y, -x, z$ ]	[15]
16	[ $-y, x, z$ ]	[14]
17	[ $x, z, -y$ ]	[20]
18	[ $-x, z, y$ ]	[18]
19	[ $-x, -z, -y$ ]	[17]
20	[ $x, -z, y$ ]	[19]
21	[ $z, y, -x$ ]	[24]
22	[ $z, -y, x$ ]	[23]
23	[ $-z, y, x$ ]	[22]
24	[ $-z, -y, -x$ ]	[21]