

PG No. 33 $D_{2d}(1)$ $\bar{4}2m$ (-4m2 setting) [tetragonal]

Table 1: Wyckoff site: 1o, site symmetry: -4m2

No.	position	mapping
1	[0, 0, 0]	[1, 2, 3, 4, 5, 6, 7, 8]

Table 2: Wyckoff site: 2a, site symmetry: 2mm.

No.	position	mapping
1	[0, 0, z]	[1, 2, 5, 6]
2	[0, 0, -z]	[3, 4, 7, 8]

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

No.	position	mapping
1	[x, x, 0]	[1, 7]
2	[-x, -x, 0]	[2, 8]
3	[x, -x, 0]	[3, 5]
4	[-x, x, 0]	[4, 6]

Table 4: Wyckoff site: 4c, site symmetry: .m.

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

Table 5: Wyckoff site: 8d, site symmetry: 1

No.	position	mapping
1	[x, y, z]	[1]
2	[-x, -y, z]	[2]
3	[y, -x, -z]	[3]
4	[-y, x, -z]	[4]
5	[x, -y, z]	[5]
6	[-x, y, z]	[6]
7	[y, x, -z]	[7]

continued ...

Table 5

No.	position	mapping
8	$[-y, -x, -z]$	[8]