

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]