

MSG No. 110.246  $I4_1cd1'$  [ Type II, tetragonal ]

Table 1: Wyckoff site: 8a, site symmetry: 2..1'

No.	position	mapping
1	[0, 0, z]	[1,4,17,20]
2	[0, $\frac{1}{2}$ , $z + \frac{1}{4}$ ]	[2,3,18,19]
3	[0, 0, $z + \frac{1}{2}$ ]	[5,6,21,22]
4	[ $\frac{1}{2}$ , 0, $z + \frac{1}{4}$ ]	[7,8,23,24]
5	[ $\frac{1}{2}$ , $\frac{1}{2}$ , $z + \frac{1}{2}$ ]	[9,12,25,28]
6	[ $\frac{1}{2}$ , 0, $z + \frac{3}{4}$ ]	[10,11,26,27]
7	[ $\frac{1}{2}$ , $\frac{1}{2}$ , z]	[13,14,29,30]
8	[0, $\frac{1}{2}$ , $z + \frac{3}{4}$ ]	[15,16,31,32]

Table 2: Wyckoff site: 16b, site symmetry: 11'

No.	position	mapping
1	[x, y, z]	[1,17]
2	[-y, x + $\frac{1}{2}$ , $z + \frac{1}{4}$ ]	[2,18]
3	[y, $\frac{1}{2} - x$ , $z + \frac{1}{4}$ ]	[3,19]
4	[-x, -y, z]	[4,20]
5	[-x, y, $z + \frac{1}{2}$ ]	[5,21]
6	[x, -y, $z + \frac{1}{2}$ ]	[6,22]
7	[ $\frac{1}{2} - y$ , -x, $z + \frac{1}{4}$ ]	[7,23]
8	[y + $\frac{1}{2}$ , x, $z + \frac{1}{4}$ ]	[8,24]
9	[x + $\frac{1}{2}$ , y + $\frac{1}{2}$ , $z + \frac{1}{2}$ ]	[9,25]
10	[ $\frac{1}{2} - y$ , x, $z + \frac{3}{4}$ ]	[10,26]
11	[y + $\frac{1}{2}$ , -x, $z + \frac{3}{4}$ ]	[11,27]
12	[ $\frac{1}{2} - x$ , $\frac{1}{2} - y$ , $z + \frac{1}{2}$ ]	[12,28]
13	[ $\frac{1}{2} - x$ , y + $\frac{1}{2}$ , z]	[13,29]
14	[x + $\frac{1}{2}$ , $\frac{1}{2} - y$ , z]	[14,30]
15	[-y, $\frac{1}{2} - x$ , $z + \frac{3}{4}$ ]	[15,31]
16	[y, x + $\frac{1}{2}$ , $z + \frac{3}{4}$ ]	[16,32]