

MSG No. 110.247  $I4'_1c'd$  [ Type III, tetragonal ]

Table 1: Wyckoff site: **8a**, site symmetry:  $2..$

No.	position	mapping
1	$[0, 0, z]$	$[1, 2]$
2	$[\frac{1}{2}, 0, z + \frac{1}{4}]$	$[3, 4]$
3	$[0, \frac{1}{2}, z + \frac{1}{4}]$	$[5, 6]$
4	$[0, 0, z + \frac{1}{2}]$	$[7, 8]$
5	$[\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	$[9, 10]$
6	$[0, \frac{1}{2}, z + \frac{3}{4}]$	$[11, 12]$
7	$[\frac{1}{2}, 0, z + \frac{3}{4}]$	$[13, 14]$
8	$[\frac{1}{2}, \frac{1}{2}, z]$	$[15, 16]$

Table 2: Wyckoff site: **16b**, site symmetry:  $1$

No.	position	mapping
1	$[x, y, z]$	$[1]$
2	$[-x, -y, z]$	$[2]$
3	$[\frac{1}{2} - y, -x, z + \frac{1}{4}]$	$[3]$
4	$[y + \frac{1}{2}, x, z + \frac{1}{4}]$	$[4]$
5	$[-y, x + \frac{1}{2}, z + \frac{1}{4}]$	$[5]$
6	$[y, \frac{1}{2} - x, z + \frac{1}{4}]$	$[6]$
7	$[-x, y, z + \frac{1}{2}]$	$[7]$
8	$[x, -y, z + \frac{1}{2}]$	$[8]$
9	$[x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	$[9]$
10	$[\frac{1}{2} - x, \frac{1}{2} - y, z + \frac{1}{2}]$	$[10]$
11	$[-y, \frac{1}{2} - x, z + \frac{3}{4}]$	$[11]$
12	$[y, x + \frac{1}{2}, z + \frac{3}{4}]$	$[12]$
13	$[\frac{1}{2} - y, x, z + \frac{3}{4}]$	$[13]$
14	$[y + \frac{1}{2}, -x, z + \frac{3}{4}]$	$[14]$
15	$[\frac{1}{2} - x, y + \frac{1}{2}, z]$	$[15]$
16	$[x + \frac{1}{2}, \frac{1}{2} - y, z]$	$[16]$