

MSG No. 179.161  $P6_522$  [ Type I, hexagonal ]

Table 1: Wyckoff site: **6a**, site symmetry: .2.

No.	position	mapping
1	$[x, 0, 0]$	[1,7]
2	$[x, x, \frac{5}{6}]$	[2,10]
3	$[0, x, \frac{2}{3}]$	[3,8]
4	$[-x, 0, \frac{1}{2}]$	[4,11]
5	$[-x, -x, \frac{1}{3}]$	[5,9]
6	$[0, -x, \frac{1}{6}]$	[6,12]

Table 2: Wyckoff site: **6b**, site symmetry: ..2

No.	position	mapping
1	$[x, 2x, \frac{3}{4}]$	[1,11]
2	$[-x, x, \frac{7}{12}]$	[2,9]
3	$[-2x, -x, \frac{5}{12}]$	[3,12]
4	$[-x, -2x, \frac{1}{4}]$	[4,7]
5	$[x, -x, \frac{1}{12}]$	[5,10]
6	$[2x, x, \frac{11}{12}]$	[6,8]

Table 3: Wyckoff site: **12c**, site symmetry: 1

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