

$\bar{1}11m$

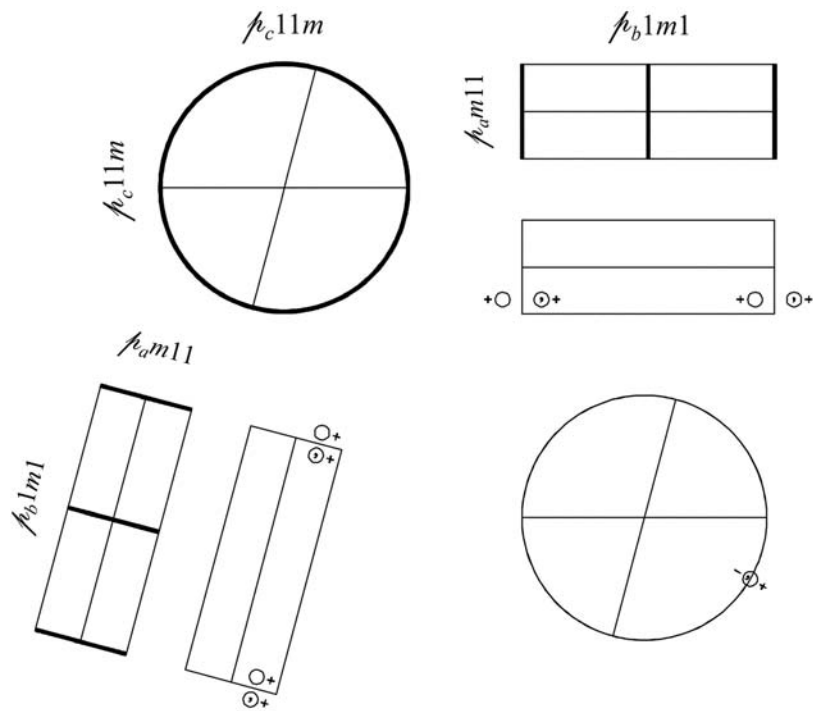
m

Monoclinic/Rectangular

No. 10

$\bar{1}11m$

Patterson symmetry $\bar{1}112/m$



Origin on mirror plane m

Asymmetric unit $0 \leq z \leq \frac{1}{2}$

Symmetry operations

- (1) 1 $(1|0,0,0)$ (2) m $x,y,0$ $(m_z|0,0,0)$

Generators selected (1); $t(0,0,1)$; (2)

Positions

Multiplicity, Wyckoff letter, Site symmetry	Coordinates	Reflection conditions
2 c 1	(1) x, y, z (2) x, y, \bar{z}	General: no conditions Special: no extra conditions
1 b m	$x, y, \frac{1}{2}$	
1 a m	$x, y, 0$	

Symmetry of special projections

Along [001] 1	Along [100] $\bar{1}1m1$	Along [010] $\bar{1}1m1$
Origin at 0, 0, z	$\mathbf{a}' = \mathbf{c}$ Origin at $x, 0, 0$	$\mathbf{a}' = \mathbf{c}$ Origin at 0, y, 0

Maximal non-isotypic non-enantiomorphic subgroups

I	$[2] \bar{1}1(1)$ 1
IIa	none
IIb	none

Maximal isotypic subgroups and enantiomorphic subgroups of lowest index

IIc $[2] \bar{1}11m$ ($\mathbf{c}' = 2\mathbf{c}$) (10)

Minimal non-isotypic non-enantiomorphic supergroups

I	$[2] \bar{1}112/m$ (11); $[2] \bar{1}112_1/m$ (12); $[2] \bar{1}2mm$ (18); $[2] \bar{1}2cm$ (19); $[2] \bar{1}\bar{6}$ (59)
II	none