International Tables for Crystallography (2006). Vol. A1, Wyckoff relations for space group 200, pp. 684–685.

$Pm\bar{3}$ No. 200 $P2/m\bar{3}$ T_h^1

Axes	Coordinates	Wyckoff positions						
		1*a*	1*b*	3*c* 6*h*	3*d* 8*i*	6*e* 12*j*	6*f* 12*k*	6*g* 24*l*
I Maximal *translationengleiche* subgroups								
[2] *P*23 (195)		1*a*	1*b*	3*c* 6*i*	3*d* 2×4*e*	6*f* 12*j*	6*g* 12*j*	6*h* 2×12*j*
[4] $R\bar{3}$ (148)	(rhombohedral axes)	1*a*	1*b*	3*e* 6*f*	3*d* 2*c*; 6*f*	6*f* 2×6*f*	6*f* 2×6*f*	6*f* 4×6*f*
	a−**b**, **b**−**c**, $\frac{1}{3}(2x-y-z)$,	3*a*	3*b*	9*e*	9*d*	18*f*	18*f*	18*f*
	a+**b**+**c** $\frac{1}{3}(x+y-2z)$,			18*f*	6*c*; 18*f*	2×18*f*	2×18*f*	4×18*f*
	(hex. axes) $\frac{1}{3}(x+y+z)$							
	conjugate: −**a**−**b**, **b**+**c**, $\frac{1}{3}(-2x-y+z)$, $\frac{1}{3}(-x+y+2z)$,							
	−**a**+**b**−**c** $\frac{1}{3}(-x+y-z)$							
	(hexagonal axes)							
	conjugate: **a**+**b**, −**b**+**c**, $\frac{1}{3}(2x+y+z)$, $\frac{1}{3}(x-y+2z)$,							
	a−**b**−**c** $\frac{1}{3}(x-y-z)$							
	(hexagonal axes)							
	conjugate: −**a**+**b**, −**b**−**c**, $\frac{1}{3}(-2x+y-z)$, $\frac{1}{3}(-x-y-2z)$,							
	−**a**−**b**+**c** $\frac{1}{3}(-x-y+z)$							
	(hexagonal axes)							
[3] *Pmmm* (47)		1*a*	1*h*	1*d*; 1*f*; 1*g* 2*l*; 2*p*; 2*t*	1*b*; 1*c*; 1*e* 8α	2*i*; 2*m*; 2*q* 4*u*; 4*w*; 4*y*	2*j*; 2*o*; 2*r* 4*v*; 4*x*; 4*z*	2*k*; 2*n*; 2*s* 3×8α
II Maximal *klassengleiche* subgroups								
Enlarged unit cell, non-isomorphic								
[2] $Fm\bar{3}$ (202)	2**a**, 2**b**, 2**c** $\frac{1}{2}x, \frac{1}{2}y, \frac{1}{2}z; +(\frac{1}{2},0,0)$	4*a*; 4*b*	8*c*	24*d* 48*g*	24*e* 2×32*f*	2×24*e* 2×48*h*	48*h* 96*i*	48*h* 2×96*i*
[2] $Fm\bar{3}$ (202)	2**a**, 2**b**, 2**c** $\frac{1}{2}x+\frac{1}{4}, \frac{1}{2}y+\frac{1}{4}, \frac{1}{2}z+\frac{1}{4}$; $+(\frac{1}{2},0,0)$	8*c*	4*a*; 4*b*	24*e* 2×24*e*	24*d* 2×32*f*	48*g* 96*i*	48*h* 2×48*h*	48*h* 2×96*i*
[4] $Ia\bar{3}$ (206)	2**a**, 2**b**, 2**c** $\frac{1}{2}x, \frac{1}{2}y, \frac{1}{2}z; +(\frac{1}{2},0,0)$; $+(0,\frac{1}{2},0); +(0,0,\frac{1}{2})$	8*a*	8*b*	24*d* 48*e*	24*d* 16*c*; 48*e*	48*e* 2×48*e*	2×24*d* 2×48*e*	48*e* 4×48*e*
[4] $Ia\bar{3}$ (206)	2**a**, 2**b**, 2**c** $\frac{1}{2}x+\frac{1}{4}, \frac{1}{2}y+\frac{1}{4}, \frac{1}{2}z+\frac{1}{4}; +(\frac{1}{2},0,0)$; $+(0,\frac{1}{2},0); +(0,0,\frac{1}{2})$	8*b*	8*a*	24*d* 48*e*	24*d* 16*c*; 48*e*	48*e* 2×48*e*	48*e* 2×48*e*	2×24*d* 4×48*e*
[4] $Im\bar{3}$ (204)	2**a**, 2**b**, 2**c** $\frac{1}{2}x, \frac{1}{2}y, \frac{1}{2}z; +(\frac{1}{2},0,0)$; $+(0,\frac{1}{2},0); +(0,0,\frac{1}{2})$	2*a*; 6*b*	8*c*	24*g* 48*h*	12*d*; 12*e* 16*f*; 48*h*	2×12*d*; 2×12*e* 4×24*g*	2×24*g* 2×48*h*	2×24*g* 4×48*h*
[4] $Im\bar{3}$ (204)	2**a**, 2**b**, 2**c** $\frac{1}{2}x+\frac{1}{4}, \frac{1}{2}y+\frac{1}{4}, \frac{1}{2}z+\frac{1}{4}; +(\frac{1}{2},0,0)$; $+(0,\frac{1}{2},0); +(0,0,\frac{1}{2})$	8*c*	2*a*; 6*b*	12*d*; 12*e* 2×12*d*; 2×12*e*	24*g* 16*f*; 48*h*	48*h* 2×48*h*	2×24*g* 4×24*g*	2×24*g* 4×48*h*

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Axes	Coordinates	Wyckoff positions					
		$1a$ $6g$	$1b$ $6h$	$3c$ $8i$	$3d$ $12j$	$6e$ $12k$	$6f$ $24l$
Enlarged unit cell, isomorphic							
[27] $Pm\bar{3}$	**3a**,**3b**,**3c**	$\frac{1}{3}x,\frac{1}{3}y,\frac{1}{3}z;\pm(\frac{1}{3},0,0);$ $\pm(0,\frac{1}{3},0);\pm(0,0,\frac{1}{3});$ $\pm(0,\frac{1}{3},\frac{1}{3});\pm(\frac{1}{3},0,\frac{1}{3});$ $\pm(\frac{1}{3},\frac{1}{3},0);\pm(0,\frac{1}{3},\frac{2}{3});$ $\pm(\frac{1}{3},0,\frac{2}{3});\pm(\frac{1}{3},\frac{2}{3},0);$ $\pm(\frac{1}{3},\frac{1}{3},\frac{1}{3});\pm(\frac{1}{3},\frac{1}{3},\frac{2}{3});$ $\pm(\frac{1}{3},\frac{2}{3},\frac{1}{3});\pm(\frac{2}{3},\frac{1}{3},\frac{1}{3})$	$1a;6e;8i;12j$ $3\times6g;3\times12j;$ $3\times12k;$ $3\times24l$	$1b;6h;8i;12k$ $3\times6h;$ $6\times12k;$ $3\times24l$	$3c;6f;6g;$ $6h;12j;$ $2\times12k;24l$ $3\times8i;$ $8\times24l$	$3d;6e;6f;$ $6g;2\times12j;$ $12k;24l$ $9\times12j;$ $9\times24l$	$3\times6e;$ $6\times12j;$ $3\times24l$ $9\times12k;$ $9\times24l$	$3\times6f;3\times12j;$ $3\times12k;$ $3\times24l$ $27\times24l$
$[p^3]$ $Pm\bar{3}$	p**a**,p**b**,p**c** $p=$ prime >2;	$\frac{1}{p}x,\frac{1}{p}y,\frac{1}{p}z;$ $+(\frac{u}{p},\frac{v}{p},\frac{w}{p})$ $u,v,w=1,\ldots,p-1$	$1a;\frac{p-1}{2}\times6e;$ $\frac{p-1}{2}\times8i;$ $\frac{(p-1)^2}{4}\times12j;$ $\frac{(p^2-1)(p-3)}{24}\times24l$ $p\times6g;$ $\frac{p(p-1)}{2}\times12j;$ $\frac{p(p-1)}{2}\times12k;$ $\frac{p(p-1)^2}{4}\times24l$	$1b;\frac{p-1}{2}\times6h;$ $\frac{p-1}{2}\times8i;$ $\frac{(p-1)^2}{4}\times12k;$ $\frac{(p^2-1)(p-3)}{24}\times24l$ $p\times6h;$ $p(p-1)\times12k;$ $\frac{p(p-1)^2}{4}\times24l$	$3c;\frac{p-1}{2}\times6f;$ $\frac{p-1}{2}\times6g;$ $\frac{p-1}{2}\times6h;$ $\frac{(p-1)^2}{4}\times12j;$ $\frac{(p-1)^2}{2}\times12k;$ $\frac{(p-1)^3}{8}\times24l$ $p\times8i;$ $\frac{p(p^2-1)}{3}\times24l$	$3d;\frac{p-1}{2}\times6e;$ $\frac{p-1}{2}\times6f;$ $\frac{p-1}{2}\times6g;$ $\frac{(p-1)^2}{2}\times12j;$ $\frac{(p-1)^2}{4}\times12k;$ $\frac{(p-1)^3}{8}\times24l$ $p^2\times12j$ $\frac{p^2(p-1)}{2}\times24l$	$p\times6e;$ $p(p-1)\times12j;$ $\frac{p(p-1)^2}{4}\times24l$ $p^2\times12k$ $\frac{p^2(p-1)}{2}\times24l$	$p\times6f;$ $\frac{p(p-1)}{2}\times12j;$ $\frac{p(p-1)}{2}\times12k;$ $\frac{p(p-1)^2}{4}\times24l$ $p^3\times24l$