

結 晶 模 型
CRYSTAL MODELS
(120種)



東 京
岩 本 鑄 產 物 商 會
標 本 部

I 等 軸 晶 系 Cubic system

A 完面像晶族 Holohedral group

No.	形	Forms	礦物 Minerals
✓1 o (111)	八面體 Octahedron		スピネル Spinel
✓2 a (100)	六面體 Cube		方鉛礦 Galena
✓3 d (110)	斜方十二面體 Dodecahedron		柘榴石 Garnet
✓4 e (210)	四六面體 Tetrahexahedron ($h\bar{h}0$)		金 Gold
✓5 p (221)	三八面體 Trisoctahedron ($hh\bar{l}$)		螢石 Fluorite
✓6 n (211)	偏菱廿四面體 Trapezohedron ($h\bar{h}\bar{l}$)		柘榴石 Garnet
✓7 s (321)	六八面體 Hexoctahedron ($h\bar{h}l$)		金剛石 Diamond
✓8 o (111), a (100)			螢石 Fluorite
✓9 o (111), d (110)			磁鐵礦 Magnetite
✓10 o (111), p (221)			螢石 Fluorite
✓11 o (111), n (311)			磁鐵礦 Magnetite
✓12 a (100), o (111)			方鉛礦 Galena
✓13 a (100), d (110)			螢石 Fluorite
✓14 a (100), n (211)			"
✓15 a (100), o (111), d (110)			"
✓16 d (110), a (100)			方鉛礦 Galena
✓17 o (111), d (110)			磁鐵礦 Magnetite
✓18 d (110), n (211)			柘榴石 Garnet
✓19 d (110), s (321)			"
✓20 d (110), o (111), n (211)			螢石 Fluorite

B 四面邊半面像晶族 Tetrahedral group

✓21 κ (111)	四面體 Tetrahedron	四面銅礦 Tetrahedrite
✓22 κ (221)	偏菱三四面體 Tetragonal tristetrahedron ($h\bar{h}\bar{l}$)	"
✓23 κ (211)	三四面體 Trigonal tristetrahedron ($h\bar{l}\bar{l}$)	"
✓24 κ (321)	六四面體 Hexakistetrahedron	"
✓25 κ (111), κ (111)		閃亞鉛礦 Sphalerite
✓26 κ (111), o (100)		四面銅礦 Tetrahedrite
✓27 κ (111), κ (311)		"
✓28 κ (111), κ (211), d (110)		"
✓29 a (100), κ (111)		方硼石 Boracite
✓30 a (100), κ (111), d (110)		"

C 五角半面像晶族 Pyritohedral group

✓31 π (210)	五角十二面體 Pyritohedron ($h\bar{h}0$)	黃鐵礦 Pyrite
✓32 π (321)	偏方廿四面體 Diploid ($h\bar{h}\bar{l}$)	"
✓33 π (210), o (111)		"
✓34 π (210), o (111) (三角廿面體 Icosahedron)		"
✓35 π (210), a (100)		"
✓36 a (100), π (210)		"

D 双 晶 Twin

✓ 37 o (111) スピネル式接觸双晶 Contact twin

双晶面 Twinnig plane (111) スピネル Spinel

✓ 38 a (100) 貫入双晶 Penetration twin 双晶面 (111) 萤 石 Fluorite

II 正 方 晶 系 Tetragonal system

A 完面像晶族 Holohedral group

✓ 39 (111) 正方錐 Tetragonal pyramid ($hh\bar{l}$) 銳錐石 Anatase

✓ 40 (211) 複正方錐 Ditetragonal pyramid (hkl)

✓ 41 (110), (001) 正方柱 Tetragonal prism,

底面 Basal pinacoid

ベスブ石 Vesuvianite

✓ 42 (210), (001) 複正方柱 Ditetragonal prism ($hk0$) "

✓ 43 (111), (101) 第一正方錐 Tetr. pyramid of 1st.order,
第二正方錐 * of 2nd.order

灰重石 Scheelite

✓ 44 (110), (111) 錫石 Cassiterite

✓ 45 (111), (100) 魚眼石 Apophyllite

✓ 46 (111), (100) 銳錐石 Anatase

"

✓ 47 (111), (112)

ジルコン Zircon

✓ 48 (111), (110), (100)

"

✓ 49 (100), (111), (110)

"

✓ 50 (100), (111), (311)

"

✓ 51 (110), (111), (001), (100), (101)

ベスブ石 Vesuvianite

B 四面體半面像晶族 Sphenoidal group

✓ 52 π (221) 正方楣 Tetragonal sphenoid

黄銅鑽 Chalcopyrite

✓ 53 π (321) 複正方楣 Tetragonal scalenohedron

"

✓ 54 π (111), π (214), π (112)

"

C 錐形半面像晶族 Pyramidal hemimorphic group

✓ 55 π (320), (111)

フェルグソン石

Fergusonite

✓ 56 (101), (111), π (311)

灰重石 Scheelite

✓ 57 π (321), π (320), (111), (001)

フェルグソン石

Fergusonite

D 偏形半面像晶族 Trapezohedral group

✓ 58 (321) 正方偏方體 Tetragonal trapezohedron

E 双 晶 Twin

✓ 59 (110), (111) 接触双晶, 双晶面 (101)

錫石 Cassiterite

III 六 方 晶 系 Hexagonal system

A 完面像晶族 Holohedral group

✓ 60 (1011) 六方錐 Hexagonal pyramid ($h0\bar{h}l$) 高温石英 Highquartz

✓ 61 (2131) 複六方錐 Dihexagonal pyramid ($hk\bar{l}l$) "

✓ 62 (1010), (0001) 六方柱 Hexagonal prism, 底面 Base 绿柱石 Beryl

✓ 63	(21̄30), (0001) 複六方柱 Dihexagonal prism ($h\bar{h}0$)	磁硫鐵礦 Pyrrhotite
✓ 64	(10̄10), (10̄11)	
✓ 65	(10̄10), (0001), (10̄11)	
✓ 66	(10̄10), (0001), (10̄11), (11̄20)	B 偏形半面像晶族 Trapezohedral group
✓ 67	(21̄31) 右六方偏方體 Right hexagonal trapezohedron	
	C 菱面體晶族 Rhombohedral group	
✓ 68	(10̄11) 菱面體 Rhombohedron	方解石 Calcite
✓ 69	(01̄12)	"
✓ 70	(21̄31) 六方偏三角面體 Hexagonal scalenohedron ($kk\bar{l}$)	"
✓ 71	(01̄12), (10̄10)	"
✓ 72	(10̄10), (10̄11) (4041), (0001)	テルル Tellurium 方解石
✓ 73	(10̄10), (01̄12)	方解石 Calcite
✓ 74	(21̄31), (10̄11)	"
✓ 75	(10̄11), (01̄12), (02̄21)	"
✓ 76	(10̄11), (41̄53), (31̄45)	"
✓ 77	(02̄21), (32̄51), (10̄11), (0001)	"
	D 菱面體異極半面像晶族 Rhombohedral hemimorphic group	
✓ 78	(11̄20), (10̄10), (10̄11), (01̄12), (01̄12), (10̄11)	電氣石 Tourmaline
	E 偏形四半面像晶族 Trapezohedral group	
✓ 79	(10̄10), (10̄11), (01̄11), (61̄51)	左水晶 left-handed quartz
✓ 80	(10̄10), (10̄11), (01̄11), (51̄61), (11̄21)	右水晶 Right-handed quartz
	F 双 晶 Twin	
✓ 81	(10̄10), (01̄12) 接觸双晶，双晶面 (0001)	方解石 Calcite
✓ 82	(21̄31) " " (02̄21)	"
✓ 83	(10̄10), (10̄11), (01̄11), (61̄51) 左ドフィネ式貫入双晶，双晶面 (10̄10)	水 晶 Quartz
✓ 84	(10̄10), (10̄11), (01̄11), (51̄61), (61̄51) 左ブラジル式 " " (11̄20)	"

IV 斜方晶系 Orthorhombic system

A 完面像晶族 Holoedetal group		
✓ 85	(111) 斜方錐 Rhombic pyramid	硫 黃 Sulpher
✓ 86	(110), (001) 斜方柱 Rhombic prism, 底面 Basal pinacoid	硫砒鐵礦 Arsenopyrite
✓ 87	(001), (110)	重晶石 Barite
✓ 88	(100), (010), (001) 長軸面 Macropinacoid, 短軸面 Brachypinacoid	硬石膏 Anhydrite
✓ 89	(110), (101) 長軸疣面 Macrodoma	硫砒鐵礦 Arsenopyrite
✓ 90	(110), (001), (011) 短軸疣面 Brachydome	紅柱石 Andalusite
✓ 91	(014), (110)	硫砒鐵礦 Arsenopyrite
✓ 92	(100), (010), (111)	"
✓ 93	(120), (111), (110)	黃 玉 Topaz

✓ 94	(001), (110), (102), (011)	重晶石 Barite
✓ 95	(001), (111), (101), (103)	"
✓ 96	(111), (011), (001), (113)	硫黄 Sulpher
✓ 97	(120), (111), (110), (101)	黄玉 Topaz
✓ 98	(100), (010), (111), (110), (232)	古铜辉石 Bronzite
✓ 99	(110), (010), (021), (130), (101), (111)	橄榄石 Olivine
B	楣形半面像晶族 Sphenoidal group	
✓ 100	(111) 斜方楣 Rhombic sphenoid	
C	双晶 Twin	
✓ 101	(110), (001), (010) 贯入双晶, 双晶面 (032)	十字石 Staurolite

V 單斜晶系 Monoclinic system

A	完面像晶族 Holohedral group	
✓ 102	(111), (1̄11) 單斜錐 Monoclinic pyramid	
✓ 103	(110), (001) 單斜柱 Monoclinic prism, 底面 Basal pinacoid	
✓ 104	(010), (100), (001) 斜軸面 Clinopinacoid,	正軸面 Orthopinacoid
		灰鐵輝石 Hedenbergite
✓ 105	(100), (110), (101)	モナズ石 Monazite
✓ 106	(110), (011), (100), (001)	角閃石 Hornblende
✓ 107	(112), (102), (001), (100)	榍石 Titanite
✓ 108	(010), (201), (2̄01), (001), (110)	輝沸石 Heulandite
✓ 109	(010), (110), (1̄01), (001), (130)	正長石 Orthoclase
✓ 110	(100), (110), (011), (010), (1̄01)	角閃石 Hornblende
✓ 111	(100), (001), (110), (1̄01), (021), (101)	透輝石 Diopside
B	双晶 Twin	
✓ 112	(010), (110), (111) 接觸双晶, 双晶面 (100)	石膏 Gypsum
✓ 113	(100), (1̄11), (110), (010) " " "	輝石 Augite
✓ 114	(010), (110), (001), (1̄01), (1̄11)	カルスバード式接觸双晶, 双晶面 (010) 正長石 Orthoclase
✓ 115	(010), (110), (001), (2̄01)	カルスバード式貫入双晶, " " "

VI 三斜晶系 Triclinic system

A	完面像晶族 Holohedral group	
✓ 116	(111), (1̄11), (1̄11), (11̄1)	
✓ 117	(111), (100), (1̄10), (110), (010)	矽礬 Calcanthite
✓ 118	(110), (1̄10), (100), (111), (1̄11), (201)	斧石 Axinite
✓ 119	(110), (1̄10), (001), (010), (1̄01), (02̄1)	曹長石 Albite
B	双晶 Twin	
✓ 120	(010), (110), (1̄10), (001), (1̄01), (2̄01), (1̄11), (112)	アルバイト式接觸双晶, 双晶面 (010) 斜長石 Plagioclase



EARTH SCIENCE MATERIALS, INC.

P.O. BOX 69,
FLORENCE,
COLORADO
81226

68-304