

Set of 50 Crystallographic Forms

INTRODUCTORY COLLECTION OF 50 WOODEN CRYSTAL MODELS

The most important crystal forms and some examples of combinations and twins.

I. Cubic or Isometric System

a) Holohedral forms:

1. (111) Octahedron
2. (100) Hexahedron
3. (110) Dodecahedron
4. (211) Trapezohedron
5. (221) Trisoctahedron
6. (210) Tetrahexahedron
7. (321) Hexoctahedron
8. (111) Octahedron, (100) Hexahedron and (110) Dodecahedron
9. (100) Hexahedron, (110) Dodecahedron and (111) Octahedron
10. (220) Dodecahedron and (211) Trapezohedron
11. (110) Dodecahedron and (211) Trapezohedron
12. (111) Octahedron, twin to (111)

b) Hemihedral forms:

13. (111) Tetrahedron
14. (211) Trigonal Tristetrahedron
15. (221) Tetragonal Tristetrahedron
16. (321) Hexakistetrahedron
17. (210) Pyritohedron
18. (321) Dyakisdodecahedron (Diploid)

II. Hexagonal System

a) Holohedral forms:

19. (10 $\bar{1}$ 1) Hexagonal Bipyramid
20. (2 $\bar{1}$ 33) Dihexagonal Bipyramid
21. (10 $\bar{1}$ 0) Hexagonal Prism with (0001) Basal Pinacoid
22. (2 $\bar{1}$ 30) Dihexagonal Prism

b) Hemihedral form:

23. $(10\bar{1}1)$ Rhombohedron
24. $(21\bar{3}1)$ Scalenohedron
25. $(10\bar{1}0)$ Unit Prism, $(01\bar{1}2)$ Rhombohedron – Calcite
26. $(21\bar{3}1)$ Scalenohedron, $(10\bar{1}0)$ Unit Prism – Calcite
27. $(10\bar{1}0)$ Positiv trigonal Prism 1st order,
 $(11\bar{2}0)$ right trigonal Prism 2nd order,
 $(02\bar{2}1)$ negativ trigonal Pyramid 1st order,
 $(10\bar{1}1)$ positiv trigonal Pyramid 1st order
 $(10\bar{1}1)$ positiv Rhombohedron,
 $(10\bar{1}2)$ negativ Rhombohedron - Tourmaline, hemimorphic
28. $(10\bar{1}1)$ positiv Rhombohedron,
 $(01\bar{1}1)$ negativ Rhombohedron,
 $(10\bar{1}0)$ Prism 1st order,
 $(11\bar{2}1)$ trigonal Pyramid,
 $(51\bar{6}1)$ right Trapezohedron - Quartz

III. Tetragonal System

29. (111) Tetragonal Bipyramid
30. (131) Ditetragonal Bipyramid
31. (110) Tetragonal Prism and (001) Basal Pinacoid
32. (130) Ditetragonal Prism and (001) Basal Pinacoid
33. (110) Prism and (111) Bipyramid – Zircon
34. (110) Unit Prism, (100) diametral Prism,
(111) Unit Pyramid, (101) diametral Pyramid,
(001) Base - Vesuvianite
35. (111) Pyramid, (110) Unit Prism,
(100) diametral Prism, twinning plane
(101) Pyramid – Cassiterite twin

IV. Orthorhombic System

36. (111) Orthorhombic Bipyramid
37. (110) Orthorhombic Unit Prism and (001) Basal Pinacoid
38. (101) Macrodome and (011) Brachydome
39. (100) Macropinacoid, (010) Brachypinacoid and
(001) Basal Pinacoid
40. (111) (113) Two Unit Pyramids with
(010) Basal Pinacoid and (001) Brachydome - Sulphur
41. (001) Base and (110) Unit Prism with
(102) Macrodome and (011) Brachydome - Barite
42. (120) Brachyprism, (110) Unit Prism,
(001) Basal Prism, (011) Brachydome,
(111) (112) (113) Unit Pyramids - Topaz

V. Monoclinic System

43. (010) Clinopinacoid, (001) Basal Pinacoid,
(100) Orthopinacoid
44. (110) Unit Prism and (011) Unit Clinodome
45. (010) Clinopinacoid, (110) Unit Prism,
(111) Hemibipyramid - Gypsum twin to (100)
46. (100) Orthopinacoid, (110) Unit Prism,
(010) Clinopinacoid - Augite
47. (010) Clinopinacoid, (110) Unit Prism,
(001) Basal Pinacoid, (101) Orthodome - Orthoclase
48. (010) Clinopinacoid, (110) Unit Prism,
(001) Basal Pinacoid,
(201) Orthodome – Orthoclase twin to (100)
49. (110) Unit Prism, $(\bar{1}02)$ $(\bar{1}01)$ Orthodomies,
(001) Basal Pinacoid - Titanite penetration twin to (001)

VI. Triclinic System

50. $(11\bar{1})$ Pyramid, (110) $(1\bar{1}0)$ Prisms,
(100) Macropinacoid, (010) Brachypinacoid,
(011) Base - Copper sulphate