

Back-up page 1.1: Table for Mineral Identification

MINERAL	COLOR	STREAK	CLEAVAGE	FRACTURE	LUSTER	HARDNESS	CRYSTAL SHAPE	SPECIFIC GRAVITY
Apatite	Brown, yellow, green	White	Basal, imperfect	Conchoidal	Vitreous/greasy	5	Hexagonal	3.1-3.3
Azurite	Blue	Light blue	Perfect	Conchoidal	Earthy/dull	3.5-4	Monoclinic	3.8
Barite	Light blue, brown, yellow, red-brown	White	Basal, perfect	Uneven	Glassy/pearly	3-3.5	Orthorhombic	4.4
Beryl	Clear, blue-green, green, yellow-golden	White or colorless	Basal, poor	Conchoidal	Glassy	7-8	Trigonal/hexagonal	2.6-2.9
Borax	Clear, white	White	Perfect	Conchoidal	Vitreous, resinous, dull	2-2.5	Monoclinic	1.7
Bornite	Bronze	Gray-black	None	Uneven	Metallic	3	Isometric (rare)	5
Calcite	Opaque, clear, white, yellow, blue, green	White	Rhombohedral perfect	Conchoidal	Glassy	3	Trigonal/hexagonal	2.7
Cassiterite	Brown, black	Dirty-white	Imperfect	Uneven	Greasy or glassy	6-7	Tetragonal	6.8-7.1
Chrysocolla	Sky blue, green	White	None	Conchoidal	Glassy or waxy	2-4	Monoclinic	2-2.3
Cinnabar	Red, brownish-red	Red-brown	Perfect in 3 directions	Uneven	Earthy	2-2.5	Hexagonal	8-8.2
Copper	Copper	Copper-brown	None	Hackly	Metallic	2.5-3	Isometric/Cubic	8.9
Corundum	Red (ruby), blue (sapphire)	White	None; basal parting	Conchoidal	Glassy	9	Trigonal/hexagonal	4
Diamond	Clear & many colors	White	Perfect, 4 directions	Conchoidal	Adamantine to greasy	10	Isometric/Cubic	3.5
Dolomite	White, gray, pink	White	Rhombohedral	Conchoidal & uneven	Vitreous	3.5-4	Hexagonal	2.8-2.9
Feldspar	White, yellow, pink, gray, blue, salmon	White	2 perfect cleavages	Uneven	Glassy or pearly	6-6.5	Mono- or Triclinic	2.5-2.7
Fluorite	Clear, yellow, green, lavender, blue	White	Octahedral, perfect	Uneven or sub-conchoidal	Glassy	4	Cubic or Isometric	3.1
Galena	Silver-gray	Gray	Cubic, perfect	Conchoidal	Metallic	2.5	Cubic	7.4-7.6
Garnet	Red, brown, black, green, orange	White	None	Conchoidal	Glassy	6.5-7.5	Isometric	3.5-4.3
Gold	Gold	Yellow-gold	None	Hackly	Metallic	2.5-3	Isometric/cubic	15.6-19.3
Graphite	Black, dark gray	Gray-black	Basal, perfect	Fibrous	Shiny/metallic	1-2	Trigonal/hexagonal	1.9-2.3
Gypsum	Colorless, white, yellow, brown	White	Perfect	Conchoidal or splintery	Pearly, glassy, sometimes fibrous	2	Monoclinic	2.3
Halite	White, pink, orange, light blue, clear	White	Cubic, perfect	Conchoidal	Glassy	2-2.5	Isometric/cubic	2.1-2.2
Hematite	Black, steel-gray	Red	None	Uneven	Metallic	5.5-6.5	Trigonal/hexagonal	4.9-5.3
Jade	Green, white, black, purple	White	None	Uneven, difficult	Waxy or pearly	6.5-7	Monoclinic	3.2-3.5
Kyanite	Blue to white	White	Good, 2 directions	Splintery	Vitreous	5.5-7	Triclinic	3.5-3.7

Magnetite	Black	Black	None	Semi-conchoidal	Metallic	5.5-6.5	Isometric/cubic	4.9-5.2
Malachite	Green	Light green	Perfect, one direction	Conchoidal or splintery	Silky, dull	3-4	Monoclinic (rare)	3.9-4
Mica	Black/brown (biotite) Clear (muscovite)	Gray/brown White	Basal, perfect	Uneven	Pearly	2.2-3	Monoclinic	2.8
Obsidian	Black, brown, gray	White	None	Conchoidal	Glassy/vitreous	6-7	None	
Olivine	Green-yellow, brown	White	Indistinct	Conchoidal	Glassy/vitreous	6.5-7	Orthorhombic	3.3-4.3
Opal	White & varicolored	White	None	Conchoidal	Glassy, pearly	5.5-6.5	None	2
Pyrite	Brassy yellow	Greenish-black	Cubic & octohedral	Uneven	Metallic	6-6.5	Cubic/Isometric	4.9-5.2
Quartz	Clear, pink, black, purple, yellow/orange	White	None	Conchoidal	Glassy/vitreous	7	Trigonal/hexagonal	2.65
Serpentine	Green, black	White	Basal, perfect or fibrous	Uneven or splintery	Waxy, silky	3-5	None	2.3-2.6
Silver	Silver, black	White, silvery	None	Hackly	Metallic	2.5-3	Isometric (rare)	10.1-11.1
Smithsonite	Green, brown, yellow	White	Perfect, rhombohedral	Uneven	Vitreous	4-4.5	Trigonal (rare)	4.3-4.5
Sodalite	Azure-blue	White	6 directions, poor	Uneven to conchoidal	Vitreous	5.5-6	Cubic (rare)	2.3
Sphalerite	Yellow, red, brown, black	White/yellow or pale brown	Dodecahedral	Conchoidal	Sub-metallic/greasy, resinous	3.5-4	Cubic/isometric	3.9-4.1
Sulfur	Yellow	Yellow	None	Conchoidal	Waxy, resinous, greasy	1-2.5	Orthorhombic	2-2.1
Talc	White, green, yellow, pink	White	Perfect, one direction	Uneven	Earthy, dull, or greasy	1	Monoclinic (rare)	2.7-2.8
Topaz	Yellow, brown, blue, pink, green, clear	White	Basal	Uneven, subconchoidal	Vitreous	8	Orthorhombic	3.4-3.6
Tourmaline	Black, red, green, yellow-golden	White	None	Conchoidal	Glassy, vitreous	7-7.5	Hexagonal	3-3.3
Turquoise	Light blue, blue-green	Pale blue-green or white	None	Uneven or Conchoidal	Waxy, earthy or dull	5-6	Triclinic	2.6-2.8
Wulfenite	Orange-yellow, brown	White	Pyramidal	Subconchoidal	Resinous, adamantine	3	Tetragonal	6.5-7

