

Known Mineral Properties

Mineral Name	Observations	Light Interaction	Streak	Hardness	Cleavage	Smell	Ice	Solubility	Remarks
Quartz (Rose)	Pinkish to colorless; Shiny; No flat surfaces	Opaque to translucent	Colorless	7	None	None	Average	Insoluble in water and acid	Sand on most beaches is made of quartz; Variations are used in jewelry
Feldspar (Microcline)	Pinkish white; Some very flat surfaces; Slightly shiny	Opaque	Colorless	6	Good to perfect	None	Slow to average	Insoluble in water; soluble in acid	Major component is granite, which is used in building construction
Calcite (Iceland spar)	Clear, colorless crystal; Shaped like a squashed box	Transparent; Double Refractive	Colorless to white	3	Perfect	None	Average to fast	Insoluble in water; soluble in acid	Perfect cleavage; Cleavage not at 90 degrees; Primary mineral in limestone
Mica (muscovite)	Colorless to metallic brown; Thin and very flat; Layered	Transparent to translucent	Colorless	2–2.5	Perfect	None	Slowest of group	Insoluble in water; soluble in acid	Thin, flat, sheet-like flexible pieces peel off easily
Halite	Clear, colorless crystal; Shaped like a perfect box	Transparent to translucent	Colorless to white	2–2.5	Perfect	None	Very fast	Soluble in water and acid	Commonly known as salt; Perfect 90-degree cleavage
Hematite	Dark red–brown to silver; Dull, not shiny	Opaque	Red to silver	3–6	None	None	Average	Insoluble in water; soluble in acid	Can look earthy or metallic; Metallic version used in jewelry
Sulfur	Bright yellow; Dull, not shiny	Opaque	White to yellow	1.5–2.5	None	Rotten eggs	Average	Insoluble in water; soluble in acid	Used to make explosives, fertilizer and sulfuric acid
Pyrite	Brass yellow to metallic gold	Opaque	Green to black	6–6.5	None	None	Above average to fast	Insoluble in water; soluble in acid	Known as fool's gold