

Minerals with Nonmetallic Luster

Name	Hardness	Specific Gravity	Color	Streak	Crystal Pattern	Cleavage or breakage	Uses/Special properties
garnet $Mg_3Al_2Si_3O_{12}$	7.5	3.5	red, deep yellow	colorless	cubic	conchoidal fracture	as gem, an abrasive
gypsum $CaSO_4 \cdot 2H_2O$	2	2.3	colorless, gray, white brown	white	monoclinic	basal cleavage	plaster of paris dry wall in construction
halite $NaCl$	2.5	2.1	colorless, red, blue, white	colorless	cubic	cubic cleavage	table salt
hornblende $CaNa(Mg,Fe)_4(Al,Fe,Ti)_3Si_6O_{22}(O,OH)_2$	5-6	3.5	green to black	gray to white	monoclinic	cleavage in two directions	common mineral of igneous rocks
kaolinite $Al_2Si_2O_5(OH)_4$	2	2.6	white, red, red brown, black	white	monoclinic	basal cleavage	ceramics, china plates, found in most soil
limonite $2Fe_2O_3 \cdot H_2O$	5.5	2.7-4.3	yellow brown, black	yellow, brown	none	conchoidal fracture	source of iron, adds color to soil
muscovite $KAl_3Si_3O_{10}(OH)_2$	2.5	2.8	white, light gray, yellow, rose, green	colorless	monoclinic	basal cleavage	insulator in electrical equipment, breaks in sheets
olivine $(Mg, Fe)_2SiO_4$	6.5	3.5	olive green	colorless	orthorhombic	imperfect cleavage	found in volcanic bombs and meteorites
quartz SiO_2	7	2.6	colorless, through various colors	colorless	hexagonal	conchoidal fracture	optical equipment, glass, radios, watches computers, gemstones
asbestos $Mg_3Si_2O_5OH_4$	2	2.2	green to yellow-green	colorless	monoclinic	fibrous cleavage	insulation, fireproofing
augite $(Ca, Na)(Mg, Fe, Al)(AlSi)_2O_6$	6	3.5	black	colorless	monoclinic	cleavage in two directions	common mineral in igneous rocks
bauxite $Al(OH)_3$	1-3	2.0-2.5	gray, red white, brown	gray	monoclinic	fracture	source of aluminum
biotite $K(Mg, Fe)_3AlSi_3O_{10}(OH)_2$	2.5	2.8-3.4	Black to dark brown	colorless	monoclinic	basal cleavage	in mica group, peels in thin sheets
calcite $CaCO_3$	3	2.7	colorless, white, pale yellow	colorless, white	hexagonal	conchoidal fracture, cleavage	fizzes in HCl, optical equipment
corundum Al_2O_3	9	3.9-4.1	colorless, brown, green, white, pink, blue, red	colorless	hexagonal	conchoidal fracture	gems, industrial abrasive, ruby
dolomite $CaMg(CO_3)_2$	3.5-4	2.8	colorless, white, link, green, gray, black	colorless	hexagonal	cleavage in 2 directions	used in cement & concrete, to make lime
feldspar $(K,Na,Ca)AlSi_3O_8$	6	2.5	colorless, white to gray, green, pink, yellow.	colorless	monoclinic	cleavage in 2 directions	most common mineral in igneous rocks