

Non-Metallic

Mineral: SULFUR Sp.Gr.: 2.0-2.1 Hardness: 1.5-2.5
Luster: ~~Vitreous~~ Streak: White Fracture
Cleavage: None Fracture: ~~Uneven to conchoidal~~
Crystal System: Orthorhombic Diaphaneity: Transparent to translucent
Color: Bright yellow, brown, black, white
Special Properties: Melts at a low temperature and becomes more viscous with stronger heat

Non-Metallic

Mineral: SMOKY QUARTZ Sp.Gr.: 2.65 Hardness: 7
Luster: ~~Vitreous~~ Streak: White or uncolored
Cleavage: None Fracture: ~~Conchoidal~~ Fracture
Crystal System: Hexagonal Diaphaneity: Transparent to translucent
Color: Smoke brown to black
Special Properties: Six sided crystal form, conchoidal fracture, hardness

Non-Metallic

Mineral: ROSE QUARTZ Sp.Gr.: 2.65-2.66 Hardness: 7
Luster: Vitreous Streak: White
Cleavage: None Fracture: ~~Conchoidal~~ Fracture
Crystal System: Hexagonal Diaphaneity: Transparent
Color: Pink
Special Properties: Unaltered before the blowpipe, pink color, does not react with HCl

Non-Metallic

Mineral: GARNET Sp.Gr.: 3.6-4.3 Hardness: 6.0-7.5
Luster: ~~Vitreous to subvitreous~~ Streak: White
Cleavage: None Fracture: ~~Conchoidal to uneven~~ Fracture
Crystal System: Cubic Diaphaneity: Transparent to subtransparent
Color: Red, brown, yellow, white, apple green, black
Special Properties: Fuses easily before the blowpipe to a brown glass

Some Cleavage

Mineral: GRAPHITE Sp.Gr.: 2.1-2.3 Hardness: 1-2
Luster: Metallic Streak: Lead gray
Cleavage: ~~None~~ Fracture: ~~None~~ Fracture
Crystal System: Hexagonal Diaphaneity: Opaque
Color: Lead gray
Special Properties: Unaltered by dilute HCl, burns at higher temperature, and lead gray streak

Non-Metallic
Cleavage

Mineral: MUSCOVITE MICA Sp.Gr.: 2.76-2.88 Hardness: 2-2.5
Luster: Vitreous Streak: Colorless
Cleavage: 1 perfect, basal Fracture: ~~None~~ None
Crystal System: Monoclinic Diaphaneity: Transparent to translucent
Color: Colorless, yellow, brown, green, red
Special Properties: Flexible and perfect cleavage

Non-Metallic

Cleavage

Mineral: CHLORITE Sp.Gr.: 2.6-3.3 Hardness: 2-3

Luster: Vitreous to pearly Streak: Colorless

Cleavage: 1 perfect, basal Fracture: ~~conchoidal~~ NONE

Crystal System: Monoclinic Diaphaneity: Transparent to translucent

Color: Various shades of green

Special Properties: Inelastic cleavage fragments, green color, and yields water in the closed tube

Non-Metallic

Cleavage

Mineral: DOLOMITE Sp.Gr.: 2.8-2.9 Hardness: 4.0-4.5

Luster: Vitreous to pearly Streak: White

Cleavage: 3 perfect rhombohedral Fracture: ~~conchoidal~~ NONE

Crystal System: Hexagonal Diaphaneity: Transparent to translucent

Color: White, colorless, yellow, brown, pink

Special Properties: Effervesces in warm dilute HCl

Non-Metallic

Cleavage

Mineral: BIOTITE MICA Sp.Gr.: 2.7-3.3 Hardness: 2.0-3.0

Luster: Vitreous to pearly Streak: Colorless

Cleavage: 1 perfect basal Fracture: ~~conchoidal~~ NONE

Crystal System: Monoclinic Diaphaneity: Transparent to translucent

Color: Black, brown, dark green

Special Properties: Flexible and dark color

Non-Metallic

Cleavage

Mineral: SELENITE GYPSUM Sp.Gr.: 2.3 Hardness: 2

Luster: Vitreous Streak: White

Cleavage: 1 perfect Fracture: None

Crystal System: Monoclinic Diaphaneity: Transparent to translucent

Non-Metallic

Cleavage

Mineral: SATIN SPAR GYPSUM Sp.Gr.: 2.3 Hardness: 2

Luster: Vitreous Streak: White

Cleavage: ~~1 perfect, 2 poorly developed~~ Fracture: None

Crystal System: Monoclinic Diaphaneity: Transparent to translucent

Color: Colorless to white

Special Properties: Produces water when heated in a closed tube, does not react with HCl, fibrous

Non-Metallic

Mineral: AGATE Sp.Gr.: 2.65-2.66 Hardness: 7
Luster: Vitreous to waxy Streak: White
Cleavage: None Fracture: ~~conchoidal~~ Fracture
Crystal System: Cryptocrystalline Diaphaneity: Translucent to opaque
Color: Milky-white, gray, green, brown, red, black
Special Properties: Unaltered before the blowpipe, variegated color, no reaction with dilute HCl

Non-Metallic

Mineral: BAUXITE Sp.Gr.: 2.3-2.7 Hardness: 1.0-3.0
Luster: Dull to earthy Streak: Colorless
Cleavage: None Fracture: ~~conchoidal~~ Fracture
Crystal System: Amorphous Diaphaneity: Opaque
Color: Yellow, gray, brown, white
Special Properties: Clay odor when moistened

Non-Metallic
Cleavage

Mineral: CALCITE Sp.Gr.: 2.7 Hardness: 3.0
Luster: Vitreous sometimes pearly Streak: White
Cleavage: ~~perfect rhombohedral~~ Fracture: None
Crystal System: Hexagonal Diaphaneity: Transparent to translucent
Color: Colorless, white, gray, green, red, purple, blue and brown
Special Properties: Effervesces with cold dilute HCl and its hardness

Non-Metallic

Mineral: CHERT Sp.Gr.: 2.65-2.66 Hardness: 7
Luster: ~~conchoidal~~ Streak: White
Cleavage: None Fracture: ~~conchoidal~~ Fracture
Crystal System: Cryptocrystalline Diaphaneity: Opaque
Color: Dull gray to black
Special Properties: Opaque and occurs in bedded masses
