

GLY 4310C Lab 2 CLASS: SILICATE

Subclass: Inosilicates
Amphibole group

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
ANTHOPHYLLITE	5.5	3.3	purplish, brownish-gold/white	uneven fracture	vitreous to silky		divergent habit
TREMOLITE	4.5	2.4	white-beige/white	splintery fracture	vitreous	LW-bright orange SW-dull orange	reticulated habit
TREMOLITE, variety Hexagonite	5.5	3.5	lavender, dark green, yellow/white	good basal cleavage	silky		reticulated habit
ACTINOLITE	5.5	3.5	gray green/ white	uneven fracture	vitreous		
HORNBLLENDE	5.0	3.0	black/green	2 dirs. at 60°	vitreous	acid reaction due to calcite impurities	
GLAUCOPHANE	5.0	2.8	blue gray/blue	uneven fracture	silky to dull	acid reaction due to calcite impurities	
RIEBECKITE	5.5	(3.5)	black/black	poor basal cleavage	vitreous		fibrous

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**Subclass: Phyllosilicates
Serpentine Group**

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
ANTIGORITE	4.5	2.4	jade green/gray	uneven fracture	greasy	slight acid reaction due to impurity	associated with pyrite
CHRYSOTILE	(2.5)	(3.2)	white/white	uneven fracture	silky		asbestiform
GARNIERITE	5.0		purple/ light green	jagged fracture	vitreous		

**Subclass: Phyllosilicates
Clay Mineral Group**

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
KAOLINITE	2.0	2.6	white/white	uneven fracture	earthy to greasy		sticks to tongue; does not absorb liquid
PYROPHYLLITE	2.5	2.9	silver,gold,red, brick/white,yellow, red	splintery fracture	vitreous		radiating habit
TALC	1.0	2.9	white/white	uneven fracture	pearly		
TALC	2.5	3.1	pink/white	even fracture	greasy		

Subclass: Phyllosilicates
Mica Group

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
MUSCOVITE	2.5	2.7	milky to light brown/white	perfect basal cleavage	vitreous to pearly	elastic, transparent to translucent	
PHLOGOPITE	(2.5)	2.8	gold-copper/(white)	perfect basal cleavage	pearly	elastic translucent	
BIOTITE	2.5	2.9	black/greenish-gold	perfect basal cleavage	vitreous	elastic	
LEPIDOLITE	3.0	2.8	milk to rose/white	good basal cleavage	pearly	translucent	
VERMICULITE	2.0	2.4	brown/red-brown	poor basal cleavage	vitreous	flexible	

Subclass: Phyllosilicates
Chlorite group

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
CHLORITE	2.5	2.4	gray-green to <u>black-green</u> green	uneven fracture	dull with vitreous flecks		
PREHNITE	5.5	2.3	limey green/white	even fracture	greasy		botryoidal habit