## Cheatography

## Geology Cheat Sheet by Adnan (Gollum) via cheatography.com/153090/cs/32954/

Biotite		Muscovite	(cont)	Olivine (con	it)	Plagioclase	
Color	Pale green, light	Extinction	Parallel extinction	Alteration	Present	Color	Colorless
	brown, red brown	position		Cross- nico		Pleoch-	Non-pleochroic
Pleoch- roism	Strongly pleoch- roic, light brown/- green -dark brown/green	Twinning	Hard to detect	Anisotropic		roism	
		Diag. Prop.	Shape, cleavage, ex. Pos.	Int. Color	Bright colours of 2nd and 3rd order	Shape	Lath shape, Subhedral to anhedral
Shape	Hexagonal plates	Calcite		Extinction position	Parallel to cleavage & crystal outlines	Relief	Low
Relief	Moderate	Color	Colorless,	Twinning	Rare and poorly	Cleavage	Present
Cleavage	Distinct cleavage,		sometimes cloudy	3	developed	Inclusion	Absent
	1set	Pleoch-	Non pleochroic	Diag.	Col, cleav, ext. Pos	Alteration	Present
Inclusion	Colourless, apatite	roism		Prop.	& twinning	Cross- nico	I
Alteration	Present, becomes	Shape	Fine to coarse grained, subhedral	Hornblende		Anisotropic	
Cross- nico	chlorite		to euhedral	Color	Shades of yellow,	Int. Color	1st order, light grey
Anisotropic		Relief	High to low,	Coloi	green or brown		to yellowish grey
Interf-	Strong, ranges		variable	Pleoch-	Strongly pleochroic, yellowish green to dark brown	Extinction	Oblique section
erence	upto 2nd order red	Cleavage	3sets of perfect, rhombohedral	roism		position Twinning	Polysynthetic,
Extinction position	Parallel extinction	Inclusion	Present	Shape	Prismatic xtal, 6sided(basal	Diam	Albite twin law
		Alteration	Absent			Diag. Prop.	Shape, rel, cleav, twin
Twinning	Not observable	Cross nicol			section)		
Diagnostic	Col, pleo, Clea, int.	Anisotropic		Relief	Moderate to high	Microcline	
property	Col	Int. Col	High 3,4 or 5th order	Cleavage	Two distinct cleavage	Colour	Colorless, sometimes cloudy
Muscovite		Ex.	Symmetrical to	Inclusion	Present	Pleoch-	Non-pleochroic
Color	Colorless	position	cleavage	Alteration	Absent	roism	
Pleoch-	Non-pleochroic,	Twinning	Prominent	Cross- nico		Shape	Lath shape,
roism	may be pale green	Diag.	Col, Clea, rel, twink,	Anisotropic			Subhedral to
Shape	Tabular crystals, lamellar, flaky	Prop	int.col	Int.color	2nd order	anhedral plates	
Relief	Moderate	Olivine		Extinction	Oblique section,	Relief	Low
Cleavage	1 set, perfect	Color	Colorless/ faint	position	b/w 12°-20°	Cleavage	Perfect
Inclusion	Present		green	Twinning	Simple twins	Under cross	
Alteration	Present	Pleoch-	Non-pleochroic	Diag. Prop.	Pleo, cleavage, ex.position	Anisotropic Int. Color	1st order grey
Under X- Nicol		roism				Ext.	Oblique, < varies
Anisotropic		Shape	Rounded/ anhedral			Position	upto 15°
Int. Color	Upto 2nd order, yellow or red	Relief	High			Twinning	Cross hatched, or grid twinning
		Cleavage	Absent			Diag.	Col, relief, shape
		Inclusion	Absent			Prop.	and twinning



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Quartz				
Qualiz				
Color	Colorless			
Pleoch-	Non-pleochroic			
roism				
Shape	Subhedral to			
	euhedral, Trigonal			
Relief	Very low			
Cleavage	Absent			
Inclusion	Present			
Alteration	Absent			
Cross- nicol				
Anisotropic				
Interf-	1st order, white and			
erence	grey			
colour				
Extinction	Undulose extinction			
position				
Twinning	Not visible			
Diag.	Relief, cleavage,			
Prop.	ex.pos., int.colit			
	shows all -ve			
	optical character			



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