

Phosphates, Vanadates, and Arsenates

Mineral Name	H	G	Color Streak Color	Cleavage, Fracture, or Parting	Luster	Acid Reac.	Other Properties	Notes
APATITE	5	3.2	GREEN WHITE	1 DIR	VITREOUS			④
PYROMORPHITE	ND	ND	YELLOW-BROWN LIGHT YELLOW	UNEVEN	DULL			RUSTY BROWN STAINS RADIOACTIVE
AUTENITE	2-2.5	ND	YELLOW YELLOW	ND	VITREOUS		SW(Brighter) & LW BRIGHT GREEN RADIOACTIVE	IN SANDSTONE
VARISCITE	(3.5- 4.5)	ND	GREEN WHITE	ND	DULL			ON CHERT
TURQUOISE	ND	ND	PALE BLUE TO AQUA	ND	WAXY			④
WAVELITE	3.5-4	ND	GREEN WHITE	2 DIR	VITREOUS			RADIATING TO GLOBULAR
AMBLYGONITE	6	3.0	WHITE WHITE	2 DIR NOT AT 90°	VITREOUS TO DULL		SW YELLOW PATCHES ON ONE SPECIMEN	
MONAZITE	ND	ND	TAN ND	ND	DULL			TYPICALLY OCCURS AS SAND
VANADINITE	(3)	ND	RED TO ORANGE YELLOW	ND	ADAMANTIN E TO RESINOUS			HEXAGONAL PRISMATIC XTALS
CARNOTITE	ND	ND	YELLOW-BROWN (YELLOW)	ND	DULL		RADIOACTIVE	IN SANDSTONE
TYUYAMUNITE	ND	ND	YELLOW YELLOW	ND			RADIOACTIVE	
ERYTHRITE		3.0	PEACH BLOSSOM PINK	ND	DULL			

GLY 4200C Lab 9

Tungstates and Molybdates

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SCHEELITE	4.5-5	ND	BROWN WHITE	UNEVEN	VITREOUS		SW BLUE-WHITE	
HUEBNERITE	ND	ND	BROWN BROWN	1 DIR	SUB- METALLIC			
FERBERITE	ND	ND	BLACK BLACK	1 DIR	SUB- METALLIC TO DULL			
WULFENITE	3	6.8	ORANGE-YELLOW ORANGE-YELLOW	2 DIR, not 90° Fair	ADAMAN T-INE			SOME BLADED XTALS

④ indicates the mineral is shown on the CD-Rom in Part IV