

GLY 4200C LAB 3

OXIDES

Mineral Name	H	G	Color/ Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties/ Notes
ZINCITE	(4.0)	(5.6)	orange to red/ orange to mustard	uneven fracture	sub-adamantine	translucent
CUPRITE	(3.5- 4.0)	(6.1)	reddish- black/(brownish)	uneven fracture	dull to metallic	
CORUNDUM	(9.0)	(4.0)	white, gray, or brown/none	3-D parting/ conchoidal fracture	vitreous	translucent
HEMATITE (OÖLITIC)	5.0		brown-purple/red- brown	uneven fracture	dull to resinous	
HEMATITE (FOSSILIFEROUS)	5.5	4.5	purple-brown/light rust	poor basal cleavage/uneven fracture	dull	acid reaction due to fossils
HEMATITE (SPECULAR)	2.0	5.2	silver-gray/brown	uneven fracture	bright metallic	magnetic due to magnetite impurities
HEMATITE (RED OCHER)	2.0	1.8	multi-red to brick/brick to orange	uneven to sub- conchoidal fracture	dull	

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OXIDES, cont.

Mineral Name	H	G	<u>Color/ Streak Color</u>	Cleavage, Fracture, or Parting	Luster	Other Properties/ Notes
ILMENITE	5.5	4.5	black/dull black	even fracture/ parting	metallic	acid reaction due to impurity
RUTILE	6.0	(4.2)	black-red/mustard	good 2-D cleavage not at 90°	vitreous	striated crystal faces
PYROLUSITE	2-6.5	4.0	black/black	conchoidal fracture	dull to sub- metallic	rubs off easily
CASSITERITE	(6.5-7)	(6.9)	black/white to light brown	1-D cleavage/ uneven fracture	dull to vitreous	
URANINITE	4.5	(6.5- 10)	dull black/ dark green	conchoidal fracture	dull	
GAHNITE	7.5-8	(4.6)	greenish-gray/ none	uneven fracture	dull to vitreous	
MAGNETITE	6.0	5.2	dark gray/brown	2-D parting/ even to conchoidal fracture	dull metallic	magnetic

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FRANKLINITE	5.5	5.1	dark gray to black/ brown	uneven to sub- conchoidal fracture	metallic	somewhat magnetic
CHROMITE	5.0	4.2	dark green to black/olive	uneven fracture	vitreous flecks	weakly magnetic
COLUMBITE- TANTALITE	6.5	(5.3- 7.9)	black/dark olive	1-D cleavage/ sub-conchoidal fracture	vitreous	

HYDROXIDES

Mineral Name	H	G	<u>Color</u> / Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties/ Notes
BRUCITE	3.0	2.4	milk-yellow/white	uneven to conchoidal fracture	waxy	acid reaction due to CaCO ₃ on surface; translucent on thin edges

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 HYDROXIDES, cont.

Mineral Name	H	G	<u>Color/</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties/ Notes
MANGANITE	4.5	4.2	black/brown	poor 1-D cleavage/ uneven fracture	metallic or waxy	
ROMANECHITE	5.5	4.5	blue-black/brown gray	conchoidal fracture	dull to sub- metallic	
DIASPORE	(1-3)	(2.5)	dirty white/ white	uneven fracture	dull	
GOETHITE	5.5	3.8	black-red, yellow/ brick or mustard	fair 1-D cleavage/ uneven fracture	greasy	
BAUXITE	3.0	2.4	multi -- tan with red to orange spots/ light yellow or orange	uneven, conchoidal where pisoliths absent	dull	pisolithic habit
LIMONITE	(4-5.5)	(2.7- 4.3)	yellow/ yellow- orange	uneven fracture	dull	

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 August 12, 2019