

# COMMON MINERALS - DIAGNOSTIC FEATURES

	1.4 $\mu$ H <sub>2</sub> O + OH	2.2 $\mu$ Al-OH	2.3 $\mu$ Fe-OH, Mg-OH CO <sub>3</sub>
<b>D O U B L E T S</b>	Alunite 1.425-1.439 1.478-1.495	Alunite 2.168 - 2.173 2.205 - 2.208	Amphiboles 2.294-2.328 2.312-2.39
	Azurite 1.497	Dickite 2.180 - 2.186 2.206 - 2.214	Azurite 2.349-2.351 Bio/phlogo 2.322-2.348
	Dickite 1.378-1.386 1.414-1.418	Kaolinite 2.162 - 2.168 2.205 - 2.214	Hydrocarbons 2.299-2.313 2.349-2.551
	Kaolinite 1.392-1.402 1.410-1.418	Zunyite 2.135 -2.138	Malachite 2.266 2.353-2.355
	Zunyite 1.557+/-		Talc 2.286-2.294 2.308-2.314
	Gypsum 1.445 - 1.450 Jarosite 1.466 - 1.478		
<b>S H A R P</b>	Al-Micas 1.410 - 1.414 Illite 1.408 - 1.414	Al-Micas 2.194-2.220 Illite 2.190-2.220	Jarosite 2.267-2.271 Tourmaline 2.364-2.366
	Pyrophyllite 1.392 - 1.396 Scorodite 1.452+/-	Pyrophyllite 2.166-2.168 Topaz 2.086-2.088	
	Talc 1.390-1398 Topaz 1.405-1.408	Buddingtonite	
<b>B R O A D</b>	Illite/smectite 1.404-1.415 nd Quartz 1.443-1.447 Silica 1.420-1.426 Smectite 1.406-1.418nd Zeolites	Diaspore 2.176-2.22 Illite/smectite 2.188-2.192 Montmorillonite 2.208-2.214 Silica 2.236-2.250	Carbonates 2.319-2.364 Chlorites 2.242-2.262 2.314-2.368 Epidote 2.338-2.346 Nontronite 2.284-2.294 Serpentines 2.314-2.336 Silica 2.24-2.252
<b>V I S</b>	Goethite 0.766, 0.920+/- Hematite 0.745, 0.862 +/- Jarosite 0.700, 0.894+/- Pyroxenes 0.914-1.053		