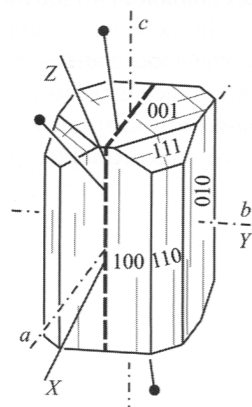


CALCIC CLINOPYROXENE

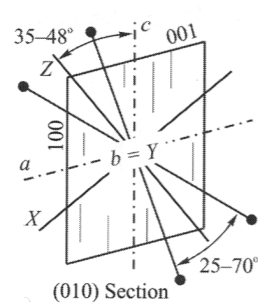
Diopside $\text{CaMgSi}_2\text{O}_6$
 $a = 9.75 \text{ \AA}$, $b = 8.90 \text{ \AA}$,
 $c = 5.25 \text{ \AA}$, $\beta = 105.6^\circ$,
 $Z = 4$

Hedenbergite $\text{CaFeSi}_2\text{O}_6$
 $a = 9.85 \text{ \AA}$, $b = 9.03 \text{ \AA}$,
 $c = 5.24 \text{ \AA}$,
 $\beta = 104.8^\circ$, $Z = 4$

Augite $(\text{Ca}, \text{Mg}, \text{Fe}^{2+}, \text{Fe}^{3+}, \text{Al})_2$
 $(\text{Si}, \text{Al})_2\text{O}_6$
 $a = \sim 9.7 \text{ \AA}$,
 $b = \sim 8.8 \text{ \AA}$, $c = \sim 5.3 \text{ \AA}$,
 $\beta = 106.9^\circ$, $Z = 4$

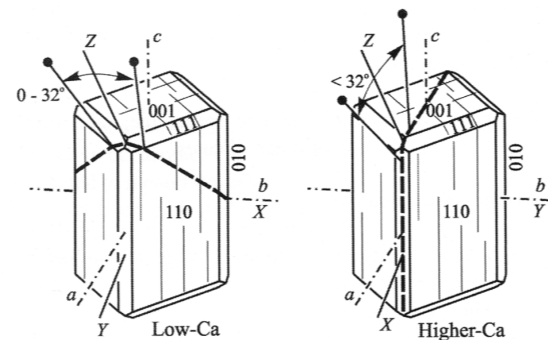
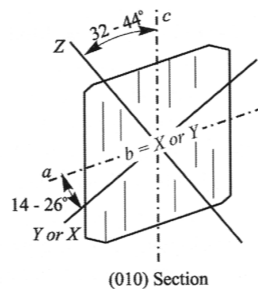


Monoclinic $2/m$
 $H = 5.5-6$
 $G = 3.19-3.56$
 Biaxial (+)
 $n_\alpha = 1.664-1.745$
 $n_\beta = 1.672-1.753$
 $n_\gamma = 1.694-1.771$
 $\delta = 0.018-0.034$
 $2V_z = 25-70^\circ$



PIGEONITE

$(\text{Mg}, \text{Fe}^{2+}, \text{Ca})_2\text{Si}_2\text{O}_6$
 Monoclinic $2/m$
 $a = 9.71 \text{ \AA}$, $b = 8.95 \text{ \AA}$,
 $c = 5.24 \text{ \AA}$, $\beta = 108.5^\circ$,
 $Z = 4$
 $H = 6$
 $G = 3.17-3.46$
 Biaxial (+)
 $n_\alpha = 1.682-1.732$
 $n_\beta = 1.684-1.732$
 $n_\gamma = 1.705-1.757$
 $\delta = 0.023-0.029$
 $2V_z = 0-32^\circ$



ORTHOPYROXENE

$(\text{Mg}, \text{Fe})_2\text{Si}_2\text{O}_6$
 Orthorhombic $2/m 2$
 $a = 18.22-18.43 \text{ \AA}$,
 $b = 8.81-9.08 \text{ \AA}$,
 $c = 5.17-5.24 \text{ \AA}$, $Z = 4$
 $H = 5-6$
 $G = 3.21-3.96$
 Biaxial (+ or -)
 $n_\alpha = 1.649-1.768$
 $n_\beta = 1.653-1.770$
 $n_\gamma = 1.657-1.788$
 $\delta = 0.007-0.020$
 $2V_x = 50-132^\circ$

