

Omphacite

Benjamin Bass

2 March 2016



General Mineral Formula: $\text{CaNaMgFeAlSi}_2\text{O}_6$

Mineral Chemical Class: Inosilicates, clinopyroxene

Specific Gravity: 3.3-3.4

Hardness: 5-6

Cleavage: 1,2, prismatic at angles of 87 and 93 (like usual pyroxenes)

Luster: Vitreous, dull

Streak: White to light green

Characteristic Color(s): Light to dark green

Crystal System: Monoclinic

Crystal Class:

Crystal Description (common forms, habit, etc.): As prismatic or equant crystals with cross-section. Often twinned.

Environment (where you find the material): High pressure metamorphic rocks. Major part of eclogite deposits.

Common Mineral Associations (in samples, also consult text,
notes: Quartz, Biotite, Muscovite, Glaucophnae

Scientific Usage/Significance:

Industrial or Social Use/Significance:

Environmental Significance: