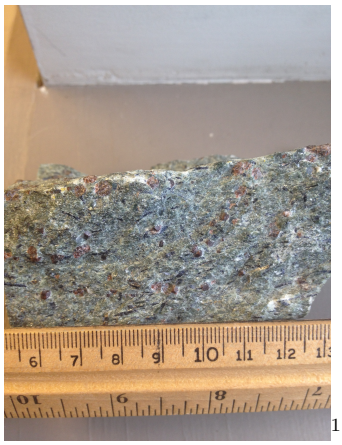
Omphacite

Benjamin Bass

2 March 2016

 [1]
 [2]

General Mineral Formula: (Ca,Na)(Mg,Fe,Al)Si_2O_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: $2/m$

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.

[1] In the rock. Associated with garnet or kyanite to help separate it from other pyroxenes.
[2] In the rock. Brilliant green pyroxene. Forms in eclogite facies rocks.

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

Scientific Usage/Significance: None

Industrial or Social Use/Significance: None

Environmental Significance: None