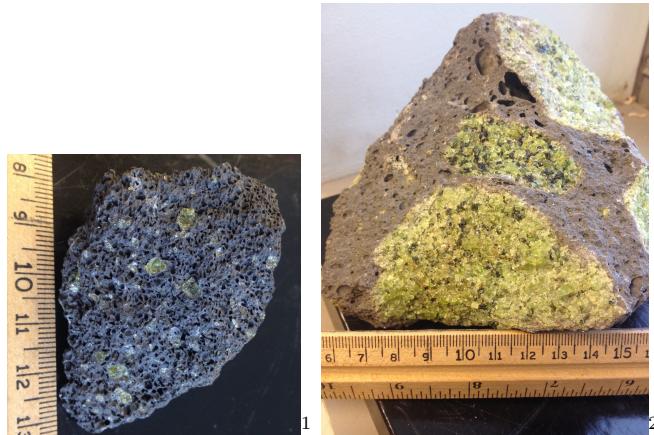


Olivine

Benjamin Bass

2 March 2016



General Mineral Formula: $(\text{Mg}, \text{Fe})_2(\text{SiO}_4)$

Mineral Chemical Class: Neosilicates

Specific Gravity: 3.2-3.4

Hardness: 6.5-7

Cleavage: 2,1 ; 3,1 - forming 90 degree angle

Luster: Vitreous

Streak: White

Characteristic Color(s): Yellow-YellowGreen

Crystal System: Orthorhombic

Crystal Class: 2/m 2/m 2/m

Crystal Description (common forms, habit, etc.): Common in subsurface. Weathers quickly on the surface. Massive to granular.

Environment (where you find the material): Occurs in mafic and ultramafic igneous rocks. In metamorphic rocks and serpentine deposits. can also occur in meteorites.

¹Associated with feldspars and serpentine.

²Greenish mineral locked in other blackish rock that brought it to the surface.

Common Mineral Associations (in samples, also consult text,
notes: **Feldspars, serpenetine, Hornblende, Augite, Spinel, Diopside, chro-
mite, magnetite.**

Scientific Usage/Significance: Can be found in meteorites.

Industrial or Social Use/Significance: Flux for steel production.
Important source of magnesium. Peridot.

Environmental Significance: None