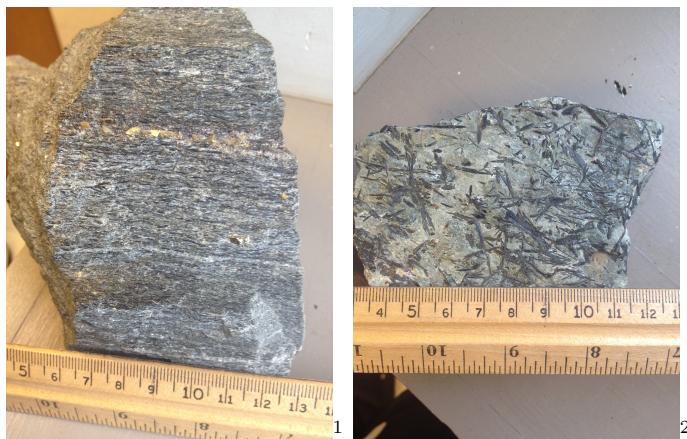


Hornblende

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General Mineral Formula: $(Na, K)_{0-1} Ca_2(Mg, Fe, Al)_5(Si, Al)_8O_{22}(OH)_2$

Mineral Chemical Class: Inosilicates : Clinoamphibole

Specific Gravity: 2.9-3.4

Hardness: 5-6

Cleavage: 2,2 prismatic. Fragments are usually elongated and irregular. Brittle

Luster: Vitreous, submetallic, dull

Streak: Grey to Greenish Grey

Characteristic Color(s): Black, dark green, dark brown.

Crystal System: Monoclinic

Crystal Class: $2/m$

Crystal Description (common forms, habit, etc.): Prismatic or tabular crystals with a diamond-shaped cross-section. Almost always in dense groups of platy or grainy crystals. Also columnar, fibrous, in veins, and massive.

¹Dark black to dark green

²Prismatic or tabular with diamond shaped cross section. In groups of platy crystals.

Environment (where you find the material: Major rock-forming mineral found in different types of metamorphic and igneous environments.

Common Mineral Associations (in samples, also consult text,
notes: Calcite, Quartz, Biotite, Albite, Orthoclase, Epidote

Scientific Usage/Significance: None

Industrial or Social Use/Significance: Due to shiny luster its often confused with ore mineral. Is usually responsible for the black streaks in granite.

Environmental Significance: None