

Glaucophane

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General Mineral Formula: $\text{Na}_2\text{Mg}_3\text{Al}_2\text{Si}_8\text{O}_{22}(\text{OH})_2$

Mineral Chemical Class: Inosilicates : Clinoamphibole

Specific Gravity: 3.0-3.1

Hardness: 5.5-6.0

Cleavage: 1,2 Conchoidal to uneven fracture. Brittl. Fibers are flexible.

Luster: Vitreous, pearly

Streak: Grayish, blue

Characteristic Color(s): Blue, dark blue. Black with blue overtones

Crystal System: Monoclinic

Crystal Class: $2/m$

Crystal Description (common forms, habit, etc.): Usually prismatic with diamond shaped cross section. Often platy in small groups of prismatic crystals. Fibrous, massive. Striated lengthwise.

¹Distinctive blue color in hand sample. Usually prismatic with diamond shaped cross section. Playt in small groups of crystals. Fibrous, massive, striated lengthwise.

Environment (where you find the material: Metamorphic schists and eclogites. Its component of blue schist rock is responsible for its blue color.

Common Mineral Associations (in samples, also consult text, notes: Muscovite (Fuschite), Epidote, Actinolite, Jadeite

Scientific Usage/Significance: Displays attractive chatoyancy when cut and polished.

Industrial or Social Use/Significance: A few percent of the worlds asbestos production.

Environmental Significance: None