

Staurolite

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General Mineral Formula: $\text{Fe}_2\text{Al}_9\text{Si}_4\text{O}_{22}(\text{OH})_2$

Mineral Chemical Class: Neosilicates

Specific Gravity: 3.7-3.8

Hardness: 7-7.5

Cleavage: 3,1

Luster: Vitreous, Dull

Streak: White

Characteristic Color(s): Brown, grayish brown, gray, yellowish brown

Crystal System: Monoclinic

Crystal Class: 2/m

Crystal Description (common forms, habit, etc.): Pseudo-octahedral crystals, usually rectangular in form with a hexagonally-shaped cross section. Often triangular formation. Most often in penetration twins.

Environment (where you find the material): In metamorphosed schists and gneisses.

Common Mineral Associations (in samples, also consult text, notes): Biotite, Muscovite, Kyanite, Almandine, Albite, Sillimanite

Scientific Usage/Significance: In industry it is an abrasive in sandblasting where its hardness is an advantage. It is an important index mineral for metamorphic rocks.

Industrial or Social Use/Significance: Crackpots use it as a healing mineral. A common pendant.

Environmental Significance: None