

Kyanite

Mineral Reference Profile • Silicates

Chemical / compositional reference

AlSiO_3

Mohs hardness

4.5–7

Physical properties

Extremely diverse; properties reflect polymerization of silica tetrahedra, elemental substitutions and crystal structure.

Geological occurrence

Silicates dominate Earth's crust and occur in igneous, metamorphic, sedimentary and hydrothermal settings.

Economic, technological and cultural relevance

Construction, ceramics, glass, refractories, abrasives, gemstones, lithium resources, insulation and countless technological applications.

Museum learning value

In the museum context, Kyanite is used to connect observation with mineral identification, geological formation, material science, responsible resource use and the relationship between natural resources and society. Specimen-specific analytical data should always be read from the verified museum catalogue or laboratory record.