

Quartz

Mineral Reference Profile • Silicates

Chemical / compositional reference

SiO₂ ■

Mohs hardness

7

Physical properties

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

Geological occurrence

Worldwide; one of the most abundant minerals in the continental crust.

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, Quartz 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.