

Bauxite

Mineral Reference Profile • Industrial & Strategic Materials

Chemical / compositional reference

mixture of Al hydroxides

Mohs hardness

1–3

Physical properties

Properties are assessed in relation to processing behavior, purity, grain size, mineral assemblage and end-use specifications.

Geological occurrence

Australia, Guinea, China, Brazil, India and tropical weathering environments.

Economic, technological and cultural relevance

Construction, energy, manufacturing, agriculture, electronics, transport, infrastructure and strategic supply chains.

Museum learning value

In the museum context, Bauxite 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.