

FACTS ABOUT BAUXITE

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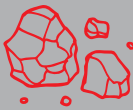
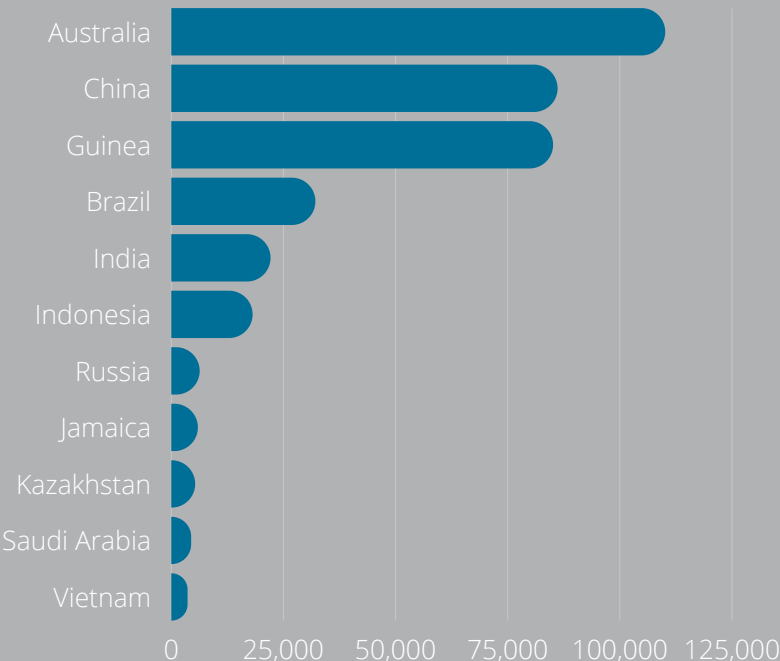
BAUXITE



Bauxite is not a mineral, but a rock that is composed of aluminium-bearing minerals, and is the principal ore of aluminium.

Major bauxite producing countries in 2021

■ 1000 Metric Tons



How are Bauxite deposits formed?

Bauxite forms when laterite soils or deeply weathered profiles are significantly leached of silica and other soluble minerals within a wet tropical or subtropical climate.



What is bauxite?

Bauxite is a rock made up of a mixture of hydrous aluminium oxides, aluminium hydroxides, clay minerals, and insoluble materials such as quartz, hematite, magnetite, siderite, and goethite. The aluminium minerals in bauxite can include: gibbsite $\text{Al}(\text{OH})_3$, boehmite $\text{AlO}(\text{OH})$, and, diaspor, $\text{AlO}(\text{OH})$.



How is bauxite mined?

Bauxite is usually mined by shallow open cast mining, with the mining method being subject to the region and ore body characteristics.



Multitude of uses

- Aluminium production
- Abrasive (sandblasting, polishing powder)
- Oil field proppant through hydraulic fracturing
- Bauxite can be used in:
 - Cement
 - Aluminium Chemicals
 - Face makeup
 - Soda cans
 - Siding for houses

The rising production of primary aluminium, demand for bauxite is projected to grow dramatically in the future. Unearth the opportunities by partnering with VBKOM.

Sources:

<https://geology.com/minerals/bauxite.shtml>

<https://www.statista.com/>

<https://byjus.com/chemistry/bauxite/>

