

ALUMINA

Meaning: Alumina is a white, powdery compound of aluminum oxide (Al₂O₃) used primarily as a raw material in aluminum production and as an effective catalyst in industrial processes.

1. Alumina is commonly used as a raw material in the production of aluminum.
2. The chemical composition of alumina makes it an effective catalyst in various industrial processes.
3. Researchers are exploring the potential of alumina in enhancing battery performance.
4. Alumina ceramics are known for their high strength and thermal stability.
5. In the manufacturing of glass, alumina serves as an important additive.
6. The refining of bauxite ore produces alumina through a complex chemical process.
7. Alumina's high melting point makes it suitable for use in extreme environments.
8. The use of alumina in water treatment helps to improve the quality of drinking water.
9. Engineers often choose alumina for applications requiring wear resistance and durability.
10. Recent studies have focused on recycling alumina to promote sustainability in the aluminum industry.

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