

Product Data Sheet

Calcined Bauxite - Chinese Origin, Premium Grade

Description

Description	Chinese-origin Calcined Bauxite is a high-alumina refractory raw material produced by calcining bauxite ore at high temperature to remove moisture and increase hardness. This premium-tier origin offers notably higher alumina purity and lower iron content than typical Indian-origin material, positioning it for high-value refractory, abrasive and metallurgical applications where premium specification justifies the higher price point.
Applications	High-alumina refractory bricks and castables Premium abrasive grit for blasting media and grinding wheels Oil & gas proppant manufacturing (round/sintered bauxite proppant) Steel and glass industry flux/refractory raw material
Grade	Premium Grade, Chinese Origin
CAS No.	Natural mineral – primarily Al_2O_3 (1344-28-1), with iron oxide/silica/titania impurities

Key Benefits

1. Higher alumina purity (85-90%) than typical Indian-origin material, suited to premium refractory and metallurgical applications
2. Lower iron content (1.5-2.5%) reducing risk of iron contamination in sensitive refractory/abrasive processes
3. Higher bulk density (3.2-3.4 g/cm³) reflecting a denser, harder calcined product
4. China remains the world's largest bauxite producer, though environmental regulation has periodically caused supply fluctuations – buyers should factor this into supply planning

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Al ₂ O ₃ (Alumina)	XRF Method	wt%	85 – 90
Fe ₂ O ₃ (Iron Content)	XRF Method	wt%	1.5 – 2.5
SiO ₂	XRF Method	wt%	3 – 6
TiO ₂	XRF Method	wt%	2 – 4
Bulk Density	Standard Bulk Density Method	g/cm ³	3.2 – 3.4
Moisture	Oven-Drying Method	wt%	Max. 0.5
Size	Sieve Analysis	–	Lumps, grits and powder grades available
Appearance	Visual	–	Tan to brown/grey dense granules or lumps

Packaging

Packaging 25 kg / 50 kg PP Woven Bags (with liner)
 1,000 kg Jumbo Bags (FIBC)
 Bulk (bulker/hopper truck or vessel) available on request for large orders

Storage & Handling

1. Store in a dry, covered warehouse away from moisture and contamination
2. Keep bags sealed until point of use to prevent moisture pickup
3. Segregate different mesh/grit grades clearly to avoid mix-up during storage and dispatch
4. Stack on pallets, away from direct ground contact

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting Al₂O₃, Fe₂O₃ and bulk density against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek/CIQ) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.