

CALCINED BAUXITE

Product Information



Calcined Bauxite

Calcined Bauxite is produced by Sintering or calcining raw Bauxites at temperatures of 1600 - 1800 °C in Rotary, Round or Shaft kilns. Rotary made Bauxite has higher bulk density. This process of calcining (heating) bauxite in kilns removes moisture and gives Calcined Bauxite its high alumina content, low iron, grain hardness and toughness. Its chemical stability, high mechanical strength and moderate slags resistance, high durability to high temperature makes Calcined Bauxite an ideal raw material in refractories, abrasives, blasting, welding and other industries.



Physical Properties

Color : Brown to Dark Grey
Melting Point : 1850°C
Bulk Density : 2.8-3.50g/cm³

Chemical Composition

We offer different grades Bauxite as following sheet, and custom chemistry is available .

Types	AL ₂ O ₃ (%)	Fe ₂ O ₃ (%)	CAO+MGO(%)	K ₂ O+NA ₂ O(%)	TiO ₂ (%)	Bulk density (g/cm ³)	Moisture content
AL-75	≥75	≤3.00	≤0.80	≤0.60	≤4.00	≥2.80	≤0.5%
AL-80	≥80	≤2.00	≤0.60	≤0.50	≤3.90	≥3.00	≤0.5%
AL-85	≥85	≤1.80	≤0.50	≤0.40	≤3.90	≥3.20	≤0.3%
AL-86	≥86	≤1.80	≤0.50	≤0.40	≤3.90	≥3.25	≤0.3%
AL-87	≥87	≤1.60	≤0.50	≤0.40	≤3.50	≥3.30	≤0.3%
AL-88	≥88	≤1.50	≤0.40	≤0.30	≤3.50	≥3.35	≤0.3%
AL-90	≥90	≤1.50	≤0.40	≤0.30	≤3.50	≥3.40	≤0.3%

* Custom chemistry and bulk density is available upon request.

Available Grit Sizes

We offer Calcined Bauxite in Macro size and fine powder complying with the current FEPA /JIS/ ANSI sieve standards.

For Refractories & Other Application:

Macro sizes : 0-1mm, 0.5-1 mm, 1-2mm, 1-3mm,2-3mm, 3-5mm,5-8mm,0-10mm,0-25mm...

Fine powder: -200mesh, -325mesh...

Noted :Custom sizes and shaped are also available upon request

Packaging

Standard Packaging:

- Big bags(1000kgs , 1250kgs, 1350kgs) with or without pallets;

- 20 or 25kg plastic.or paper bags, with or without pallets.

*Custom Packaging is available upon request

Application

- Aluminum production: key materials for smelting of Aluminum.

-Abrasives, Polishing & Blasting

-Shaped and unshaped refractories for the steel industry, foundries, glass and cement plants:

Such as Kiln linings and high alumina refractory bricks ,molds, mortars, and precision castings. Refractory fibers...

-Road construction for slip-resistance.: non-slip pavement and anti-skid flooring

-Production of Brown fused alumina

-Production of high alumina cement



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