



Calcined Bauxite Introduction

Calcined Bauxite is obtained by firing (heating) the superior grade Bauxite at high temperature (from 850°C to 1600°C). This removes moisture thereby increasing the alumina content. Compared to an alumina content of about 57 % to 58 % in raw Bauxite, Calcined Bauxite has an alumina content of 75 % to 90 %. The heating is carried out in rotary kilns. Calcination is done at different temperatures ranging from 850 °C to 1600 °C depending upon the customer's application. FIND professional [Calcined bauxite manufacturer](#) here.

Calcined Bauxite Specifications

Brand	Main chemical composition,%					Density ,(g/cm ³)	water absorption,%
	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO+MgO	K ₂ O+Na ₂ O		
GLA-90	≥90	≤1.4	≤4.0	≤0.4	≤0.4	≥3.3	≤3
GLA-88	≥88	≤1.5	≤4.0	≤0.4	≤0.4	≥3.25	≤4
GLA-85	≥85	≤1.8	≤4.0	≤0.4	≤0.4	≥3.1	≤4
GLA-80	≥80	≤2.0	≤4.0	≤0.5	≤0.5	≥2.8	≤5
GLA-75	≥75	≤2.0	≤4.0	≤0.5	≤0.5	≥2.7	≤7

Calcined Bauxite Uses and Applications

1. Aluminium metallurgy

2. Precision casting /

Investment casting: bauxite grog fines can be made into mold for precision casting.

3. Refractory: high alumina bauxite's refractoriness can reach 1780°C.

It is characterized by good chemical stability and mechanical performance. (Al₂O₃ ≥48% with low Fe₂O₃)

4. Aluminium silicate refractory fiber: The high alumina bauxite grog can melt under 2000 °C-2200°C in the electric arc furnace. After a series of processing, it can become aluminium silicate refractory fiber,

which can be made into fiber blanket, plate, cloth.

5. Mixing magnesia and bauxite grog with binders to pour the molten steel ladle for better overall lining performance.

6. Producing bauxite cement

7. Abrasives

8. Ceramics industry

9. Chemistry industry for all kinds of aluminium compound.

Calined Bauxite Package:

By 1 ton jumbo bag