



Alubaux® Rotary Kiln Bauxite – Refractory Grade Series

1 Description

Alubaux® - Calcined bauxite is produced by sintering/calcining of low iron, low alkali containing raw bauxites at temperatures of 1600 - 1800 degree Celsius. this process could be in different kilns as like Rotary kilns, Shaft kilns or Round Kilns. In this calcination process the high refractory mineral phases corundum and mullite are formed, Therefore, calcined bauxite is one of the most important raw material for the production of shaped and unshaped refractories for the steel industry, foundries, glass and cement plants.

Alubaux® Rotary Kiln Calcined Bauxite is available uncrushed or in fractions and as ball milled powder according to customers' requirements, in bulk or bagged.



3 Features

Alubaux® showing us an outstanding properties as like low thermal expansion, low thermal conductivity, excellent creep resistance, high temperature strength, and good chemical stability. The mechanism of mullite formation depends upon the method of combining the alumina- and silica containing reactants.

4 Application

Alubaux® is used in a lot of industries like the chemical industry, refractory, abrasive, cement, steel, and petrol industry amongst others. In chemical , bauxite along with alumina is used in the manufacturing of aluminium chemicals. In refractory, it is used as a raw material for making several products.



5 Packaging and Storage

Convenient packages of 1250kg Jumbo bags as well as bulk shipments are available. Other customized packages are provided upon request. For best product performance and longer shelf life, repacking is not recommended.



6 Chemical and Physical Properties

Item name	Alubaux®-85	Alubaux®-86	Alubaux®-87
Al ₂ O ₃ min	85%	86%	87%
SiO ₂ max	9.0%	8.0%	7.0%
Fe ₂ O ₃ max	2.0%	1.8%	1.8%
TiO ₂ max	4.0%	3.8%	3.8%
K ₂ O+Na ₂ O	0.30%	0.25%	0.25%
CaO+MgO	0.50%	0.45%	0.45%
Physical Properties			
B.D min g/cm ³	3.13	3.20	3.25
Moisture	0.5%	0.5%	0.5%

7 Particle Size Distribution

Alubaux® is conveniently available in the following typical grain sizes

- 5-8mm (-8+5mm)
- 3-5mm (-5+3mm)
- 1-3mm (-3+1mm)
- 0-1mm (-1mm)
- 0-250µm (-60#)
- 0-150µm (-100#)
- 0-15µm (-200#)

Alubaux® Customized sizes are available upon request for different usages.

The above-mentioned data represent standards values obtained from our current production line. Guarantees with respect of these data are only valid if agreed upon in writing. We reserve the right to make alterations due to technical developments.