

Bauxite Calcination Plant by Rotary Kiln with Fine Grinding Ball Mill

Description:

Bauxite Calcination Plant by Rotary Kiln with Fine Grinding Ball Mill. Refractory Grade Calcined Bauxite

Calcined bauxite is produced by sintering/calcining of low iron, low alkali containing raw bauxites at temperatures of 1600 - 1800 degree Celsius. In this calcination process the high refractory mineral phase's corundum and mullite are formed. Therefore calcined bauxite is one of the most important raw materials for the production of shaped and unshaped refractories for the steel industry, foundries, glass and cement plants. Calcined bauxite is available "run of kiln" i.e. uncrushed or in fractions and as ball milled powder according to customers' requirements, in bulk or bagged.

Calcined Bauxite is obtained by calcining (heating) superior grade Bauxite at high temperature (from 850 oC to 1600 oC). 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 82 % to 86 %. The heating is carried out in rotary kilns. Calcination is done at different temperatures ranging from 850 oC to 1600 oC depending upon the customer's application.

Calcined bauxite is used in a number of applications:

- Refractory Grade Calcined Bauxite (CB - I and CB - II Grade): To make refractory grade, Bauxite is thermally treated at 1600 oC to produce Calcined Bauxite where the Alumina content is mostly above 82%.
- Brown Fused Alumina, Proppants and Road Surfacing : To make the above grades, Bauxite is thermally treated at 1000 oC – 1200 oC to produce Calcined Bauxite where the Alumina content is anywhere between 80-88% depending on the requirement.

For more details download PDF file.

Keywords: Calcined Bauxite, Refractory Calcined Bauxite, Bauxite, Calcined, Calcination, Calcination of Bauxite, Refractory Bauxite Products, Calcined Bauxite Manufacture, Refractory Grade Calcined Bauxite, Refractory & Abrasive Grade Calcined Bauxite, Refractory Grade Bauxite, Calcined Bauxite Production, Calcined Bauxite Uses, Calcined Bauxite Manufacturing Plant, Manufacturing of Calcined Bauxite, Bauxite Calcination Plant, Bauxite Calcination Plant Cost, Calcined Bauxite Project, Profitable Calcined B

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