

Alumina from Bauxite

Description:

Alumina from Bauxite. Extraction and Production of Alumina from Bauxite

Alumina is the common name given to aluminum oxide (Al_2O_3). Alumina is produced from bauxite, an ore that is mined from topsoil in various tropical and subtropical regions. The Bayer process, discovered in 1887, is the primary process by which alumina is extracted from bauxite.

Bauxite is the general name given to the hydrated oxides of aluminium. It contains varying amounts of combined water and several impurities of which ferric oxide and silica are usually predominant. It is essential that the Al_2O_3 (alumina) be obtained substantially free from these impurities as otherwise the iron oxide and silica would be reduced and contaminate the metallic aluminium produced in the Hall (or Heroult) Process.

For more details download PDF file.

Keywords: #Alumina_from_Bauxite, #Extraction_Process_of_Alumina_from_Bauxite, #How_is_Alumina_Extracted_from_Bauxite? #Extract_Alumina_from_Bauxite, Manufacturing of Alumina, Making of Alumina, #Extraction_of_Aluminium_from_Bauxite_Pdf, #Extraction_of_Alumina, Extraction of Alumina from Bauxite, Manufacturing Process of Alumina, #Production of Alumina, Manufacturing of Alumina, How is Alumina Produced? #Alumina_Production, Process for Production of Alumina, Production of Alumina from Bauxite, Alumina Plan

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