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Kaolin Mining Plants

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The process of dry method of kaolin mining, kaolin crushing and kaolin milling

▶ Kaolin Mining Introduction

Kaolin Mining Craft Process: Mining Kaolin beneficiation process is divided into dry and wet processes. Mining kaolin is of great importance and necessary in the world. Kaolin quarry in mining is developing more and more. Output of the un-coal department of natural kaolin, according to their quality, plasticity, and sand content, can be divided into three type that is hard, soft and sandy kaolin in industry. The Focused place of mining kaolin around the world is the United States, Britain, Brazil, the Czech Republic and so on. As the rapid development kaolin mining industry in Brazil, the international Three Kingdoms including the United States, Britain, Brazil has formed. They are not only large countries of refined kaolin quarry producing, but also a major exporter. At present, the companies mining kaolin in China has exceeded 700 whose annual ore production capacity is more than 5.5 million tons and mineral processing capacity 1.8 million tons.

▶ The process of dry method of kaolin mining is mainly as follows:

Rude ore taken out will be sent into kaolin mining equipment that is crushing machine to crush till the fineness is about 25mm. Then the material will be transported by belt conveyor to secondary crushing equipment, such as impact crusher, cone crusher, etc. to be crushed again. When its fineness is less than 6mm, the hot air in the kaolin quarry equipment will absorb the water in kaolin till the amount drops to 10%. The crushed stone can be grinded in raymond mill which is equipped with centrifuge and cyclone dust collector. This will further grind the materials. The process can remove most of the sand and therefore is suitable to process ore minerals with white high ore, low gravel content, the appropriate particle size distribution. The dry method of kaolin mining is of low cost and products is commonly used in cheap filler of rubber, plastics and paper industries.

▶ Kaolin Application in industry

Kaolin is used in ceramics, medicine, coated paper, as a food additive, in toothpaste, as a light diffusing material in white incandescent light bulbs, and in cosmetics. It is generally the main component in porcelain. Kaolin Clay mineral is kind of clay or clay rocks in which there is a certain amount of kaolinite subfamily clay minerals. Kaolin has many excellent process performance which makes the kaolin widely used in papermaking, ceramics, paint, rubber, plastics, refractories, chemicals, pesticides, pharmaceuticals, textiles, petroleum, building materials, and defense sectors and so on. And so mining kaolin is widely seen too in many industries, such as ceramic products. With the development of industrial technology and scientific and technological level, there is a growing number of types of ceramic products. It is not only closely related with people's daily life, but also broadly applied in cutting-edge technology of defense applications, such as electrical, atomic energy, jet aircraft, rockets, satellites, semiconductors, microwave technology, integrated circuits, radio, television and radar etc. Almost all need ceramic products. This shows the important role of kaolin mining in the national economy and national defense.

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TEL: 0086-21-58383022
0086-21-58383058
FAX: 0086-021-58383058
Email: mill@unisbm.net
MSN: millexpo@hotmail.com
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