

# ELECTRODE PASTE



## Description

Electrode paste is a conductive material used in electric furnace equipment such as ferroalloy furnaces and calcium carbide furnaces. Electrode paste is also called self-baking electrode. It relies on the heat in the submerged arc furnace to complete the baking. Therefore, the key to the use of electrode paste is to match the electrode consumption rate with the baking rate. Due to the development of submerged arc furnace technology, it is gradually developing in the direction of large-scale and closed. During the baking process, the electrode has reduced the more conductive heat and radiant heat obtained by the open furnace type in the past to only conductive heat. Therefore, the heat obtained by the electrode from the furnace is greatly reduced, which requires improving the sintering performance of the electrode paste to make up for this deficiency.

## Applications of electrode paste

- 1. Metallurgical industry: electrode paste is widely used in the manufacture of electrodes in metallurgical equipment such as electric arc furnaces and submerged arc furnaces, and participates in high-temperature smelting processes. It is an important component in the production of steel and other metal materials.
- 2. Aluminum electrolysis industry: In the production of aluminum electrolysis, electrode paste is used to make anode and cathode electrodes to ensure the stability and efficiency of the electrolysis process.
- 3. Chemical industry: electrode paste is used in the chemical industry to produce electrodes for electrolytic cells, electrolytic cells and other equipment, and participates in various electrolytic reactions.
- 4. Carbon product manufacturing: electrode paste is also used to produce other carbon products, such as carbon bricks, carbon blocks, etc., which are used in high-temperature kilns, metallurgical furnaces and other equipment.

## Electrode paste features

- 1. High conductivity
- 2. High temperature resistance
- 3. Good bonding performance
- 4. Corrosion resistance
- 5. High mechanical strength