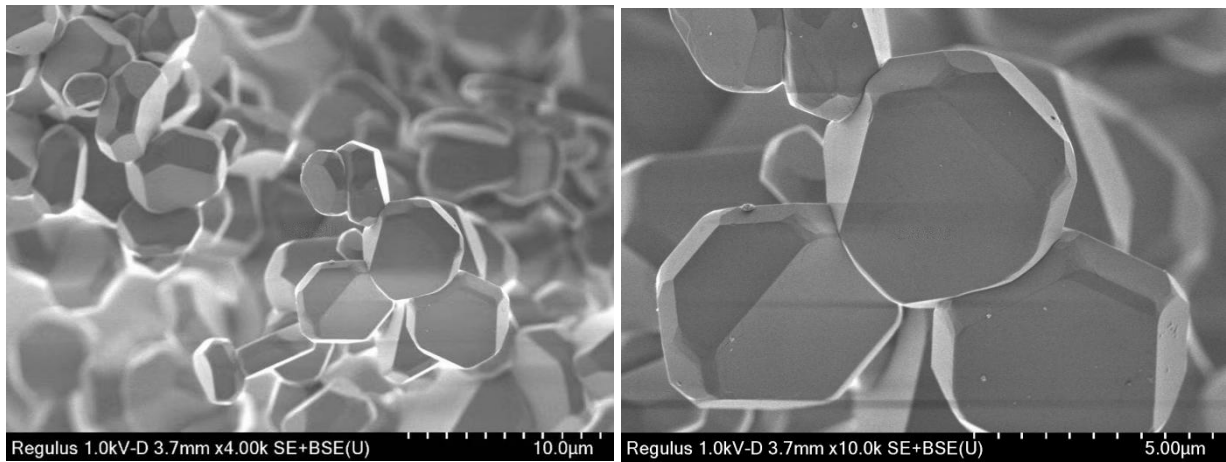




Shandong Zhanchi New Materials Co., Ltd
Shanghai Chenxu Trading Co.,Ltd

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Large single crystal alumina



Large single crystal alumina is a white powder crystal formed by high-temperature calcination of aluminum hydroxide or industrial alumina with special mineralizer. Alumina has many crystalline forms, single crystal stability and the most widely used is α -Alumina. α -Alumina has high melting point, good stability, excellent thermal conductivity and electrical insulation. According to the different needs of heat conducting materials, through control α -alumina the size and distribution of alumina crystal particle size and impurity content can produce a variety of large single crystal alumina products.

Characteristics:

1. Ellipsoid shape, regular shape, good filling, good stability, easy to form more heat conduction channels;
2. The performance is comparable to that of spherical alumina in all aspects. Similarly, the number of filling parts is higher, the heat conduction is higher, and the super adhesion performance price ratio is higher
3. Small specific surface area, ultra-low oil absorption value and excellent fluidity
4. The original grain size distribution is narrow and the purity is high. After reasonable grinding, the particle size almost reaches the particle size of the original grain



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Large single crystal alumina Application

1. Ceramic diaphragm coating of lithium battery;
2. thermal interface materials: thermal conductive silicone gaskets, thermal silicone grease, heat conduction sealing glue, thermal conductive double-sided adhesive, heat conducting gel, thermal conductive phase change material, etc.
3. Heat conducting engineering plastics: LED lampshade, switch shell, notebook shell, mobile phone shell, water tank, motor coil framework, etc;
4. High thermal conductivity aluminum based copper clad laminate: high power LED circuit board, power circuit board, etc;
5. Ceramic filter coating, such as ceramic film for sewage treatment.

OEM: 1-5 micron large single crystal alumina can be customized according to customer requirements.