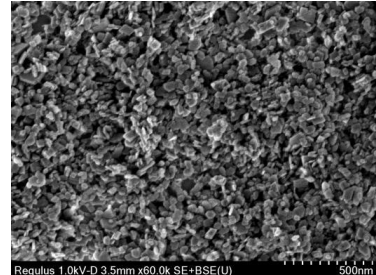
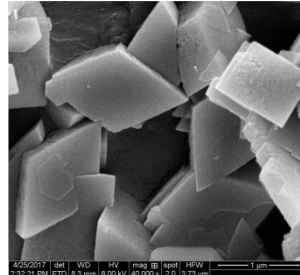
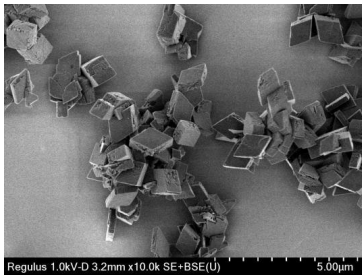




Shandong Zhanchi New Materials Co., Ltd
Shanghai Chenxu Trading Co.,Ltd

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High purity Boehmite



Boehmite, also known as boehmite, its molecular formula is γ - $\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$ or γ - $\text{Al}(\text{OH})_3$, the crystal belongs to orthogonal (orthorhombic) crystal system and is crystallized into α Phase hydroxide mineral, which is mainly composed of γ - $\text{Al}(\text{OH})_3$, which can lose crystal water and convert into Al_2O_3 at high temperature. It has a unique crystal structure and is widely used in many fields such as catalyst and catalyst carrier, papermaking filler, inorganic flame retardant and so on. As a precursor, it can prepare aluminum oxide widely used in ceramics, electronics, adsorption and catalysis.

Our company high purity boehmite technical specifications

Model		CX-B500	CX-B501	CX-B1002	CX-B1003
Purity	%	>99.99	>99.90	>99.95	>99.8
Phase state		γ - $\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$ or γ - $\text{Al}(\text{OH})_3$			
Appearance		White powder			
Mean Particle Size(D50)	um	0.04-0.08	0.04-0.08	1-2	1-3
BET Specific Surface Area	m ² /g	8.0-14.0	8.0-14.0	2.0-8.0	2.0-6.0
Ca ²⁺	PPm	<10	<30	<30	<500
Fe ³⁺	PPm	<15	<20	<20	<50
Cu ²⁺	PPm	<5	<5	<5	<5
Na ⁺	PPm	<15	<100	<100	<500
PH Value	—	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0
Packing		20kg	20kg	25kg	15kg



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High purity boehmite application

1. Lithium battery diaphragm coating material, lithium battery electrode edge coating material

Boehmite has excellent insulation, chemical and electrochemical stability, heat resistance and so on. It can improve the thermal stability of diaphragm, improve the safety of lithium-ion battery, and improve the rate performance and cycle performance of battery under low coating thickness.

2. Inorganic flame retardant (commonly used in wire, cable and high temperature nylon)

Boehmite is filled into plastics and polymers, which is not easy to absorb moisture. Its chemical properties are stable at room temperature. When heated to a certain temperature, it begins to absorb heat and decompose to release crystalline water. During decomposition, it absorbs heat, only emits water vapor, does not produce combustible gas and can eliminate smoke. It has become an attractive filler in the material industry and modern scientific and technological revolution.

3. Artificial marble, agate filler

Because $AlOOH$ has a refractive index very close to that of polyester resin, artificial marble has the characteristics of high visibility, low cost, light weight and not easy to crack.

4. Papermaking filler

Nano boehmite can be used to make paper, such as painting, newspaper, banknote paper, photographic paper, dictionary paper and other fillers.

5. Application in catalytic field

Ultrafine activated alumina obtained by dehydration of boehmite as precursor under calcined high temperature conditions $\gamma-Al_2O_3$ has better catalytic activity and selectivity, and is often used as catalyst and catalyst support.