

## Description

Low-viscosity Aluminum Hydroxide behave as flame retardant filler in pouring sealant, BMC, SMC and other industries. Compared with ordinary aluminum hydroxide, its particle size distribution is narrower and more concentrated, the viscosity is lower. Low-viscosity Aluminum Hydroxide is divided into four grades according to particle size.

## Physical and Chemical properties

	Item	Value			
		HT-205 LV-2	HT205 LV-3	HT-205 LV-5	HT-205 LV-8
1	(Al <sub>2</sub> O <sub>3</sub> ) %	≥64.5	≥64.5	≥64.5	≥64.5
2	(SiO <sub>2</sub> ) %	≤0.04	≤0.04	≤0.04	≤0.04
3	(Fe <sub>2</sub> O <sub>3</sub> ) %	≤0.02	≤0.02	≤0.02	≤0.02
4	(Na <sub>2</sub> O) %	≤0.4	≤0.4	≤0.4	≤0.4
5	Loss on Ignition(1100°C) %	34.0 ~ 35.0	34.0 ~ 35.0	34.0 ~ 35.0	34.0 ~ 35.0
6	Moisture (105 °C) %	≤0.5	≤0.5	≤0.5	≤0.5
7	Whiteness /%	≥96	≥94	≥93	≥92
8	pH	8.5 ~ 11.5	8.5 ~ 11.5	8.5 ~ 11.5	8.5 ~ 11.5
9	Particle SizeD50/μm	≤2.8	2 ~ 4	4 ~ 6	6 ~ 9

## Key advantages

- Low viscosity
- Narrow particle size distribution
- Optional different grades
- Low oil absorption

## Application

Low-viscosity Aluminum Hydroxide is widely used in BMC, SMC, laminate, pouring sealant and other industries.

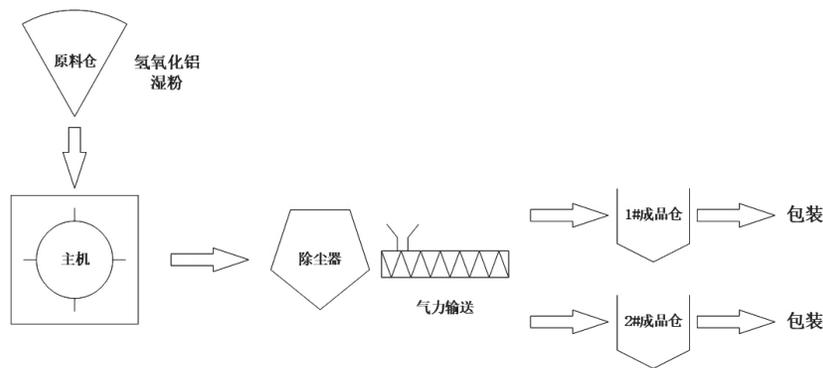




## Low-viscosity Aluminum Hydroxide Production Process

### 1. Operating Principle

Vertical grinding mill is an ideal equipment for the grinding industry that integrates crushing, drying, grinding and grading transportation. Its working principle is that the motor drives the mill plate to rotate through the reducer, and the material falls from the feed port to the center of the grinding plate through the air-locked feeder. While the hot air enters the grinding mill from the air inlet. With the rotation of grinding plate, the material moves toward the edge of the grinding plate under the action of centrifugal force, and is crushed by the grinding roller when it passes through the ring groove on the mill plate. The crushed material is carried by the high-speed air flow of the wind ring on the edge of the mill plate, and the large particles fall directly onto the mill plate for re-grinding. When the material in the air flow passes through the upper separator, under the action of the rotating rotor, the material is crushed. The coarse powder falls from the cone to the mill plate for re-grinding, and the qualified fine powder comes out of the mill with the air flow and is collected by the dust collection device, this is the final product. The different particle size aluminum hydroxide can be obtained by adjusting the separator.



### 2. Process Characteristics

- ① The particle size range is finer than that of ordinary mechanical grinding, and the particle size of the product is adjustable
- ② The crushing chamber is equipped with an automatic slag discharge device, which can automatically remove difficult-to-grind particles and impurities in the material.
- ③ It has the function of breaking up and dispersing agglomerated materials
- ④ Fully closed negative pressure operation, no dust pollution.
- ⑤ The product viscosity is low.

### Application

Product And Usage	Low-Viscosity Aluminum Hydroxide (LV Series)
Processability	★★★★★
Applications	Pouring Sealant, BMC, SMC