

# High Quality Powder Materials



Jiujiang Huirong New Materials Co., Ltd.



## Nano Activated Calcium Carbonate

### Product Description:

- 1.CAS NO:471-34-1
- 2.EINECS:207-439-9
- 3.STANDARD:GBT 19590-2011
- 4.HS CODE:2836500000

### Packaging and transportation:

- 1.Packing:25kg/Plastic woven bag
- 2.Transportation:16.5tons/20'GP  
26tons/40'HQ

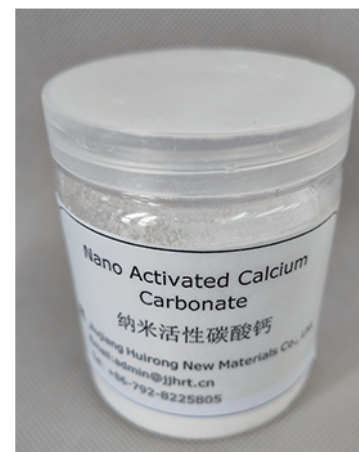
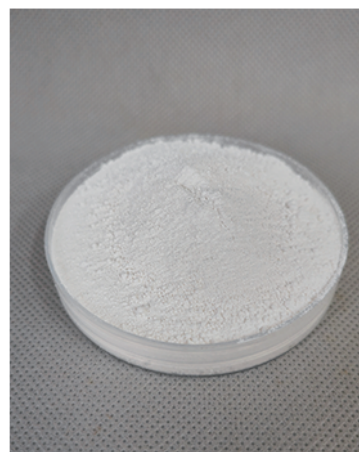
### Application:

- (1) Plastic: Because the surface of active nano-calcium carbonate is lipophilic and hydrophobic, and has good compatibility with resin, it can improve the rheological properties of products, and has the functions of filling, strengthening and toughening.
- (2) Rubber: Nano-calcium carbonate after surface modification treatment has good compatibility with rubber, has reinforcement, filling, color adjustment, improved processing technology and product performance, can make rubber easy to mix, easy Dispersed, the gum is soft and smooth after mixing.
- (3) Sealing adhesive material: used in sealing adhesive material, it has good affinity with the rubber material, can accelerate the crosslinking reaction of the adhesive, greatly improve the thixotropy of the system, enhance the dimensional stability, improve the adhesive Mechanical behavior.
- (4) Paint: It can be used as a pigment filler, which has the advantages of fineness, uniformity, high whiteness, good optical performance, etc. In the paint making, it can suspend the litter powder with larger formula density and play a role in anti-settling.
- (5) Ink: The ink configured with nano-calcium carbonate has good viscosity, so it has good printing performance; good stability; fast drying and no opposite effect; due to the small particles, it can make the printed product smooth and improve the ink finish , Suitable for high-speed printing.
- (6) Papermaking: Adding nano-calcium carbonate to papermaking can improve the bulk density, apparent fineness and water absorption of paper; improve the strength and high-speed printing of special paper; adjust the burning speed of cigarette paper.



## Nano Activated Calcium Carbonate

|                              |                                |
|------------------------------|--------------------------------|
| CaCO <sub>3</sub> Content %≥ | 95                             |
| Average Particle Size/nm     | 80-100nm<br>50-90nm<br>40-60nm |
| Whiteness degree%≥           | 97.2                           |
| Activation Grade%            | 100                            |
| Oil Absorption g/100g≤       | 26                             |
| Moisture/%≤                  | 0.4                            |





# Precipitated Light Calcium Carbonate (Industrial Grade)

## Product Description:

- 1.CAS NO:471-34-1
- 2.EINECS:207-439-9
- 3.STANDARD:HGT 2226-2010
- 4.HS CODE:2836500000

## Packaging And Transportation:

- 1.Packing:25kg/Plastic woven bag.
- 2.Transportation:17tons/20'GP  
26tons/40'HQ.

## Application:

- (1) Used in the rubber industry to increase the volume of the product and in the natural rubber and synthetic rubber has a significant reinforcing effect.
- (2) In plastics, it can improve the hardness and surface gloss and flatness of the product,Also can replace expensive white pigment to have certain whitening effect.
- (3) It is an indispensable skeleton used in the paint industry.
- (4) In water-based coatings to make the coating not settle,easy to disperse and has good gloss. The dosage is 20-60%.
- (5) It can guarantee the strength, whiteness and low cost of paper in the paper industry.



## Precipitated Light Calcium Carbonate

|                              |          |
|------------------------------|----------|
| CaCO <sub>3</sub> content %≥ | 98       |
| Sedimentation volume ml/g≤   | 2.4      |
| HCL insoluble content %≤     | 0.02     |
| PH( 10% suspension)          | 9.0-10.0 |
| Whiteness degree%≥           | 94       |
| Mesh                         | 1250     |





# Food Grade Calcium Carbonate

## Product Description:

- 1.CAS NO:471-34-1
- 2.EINECS:207-439-9
- 3.STANDARD:GB 1886.214-2016
- 4.HS CODE:2836500000

## Packaging And Transportation:

- 1.Packing:25kg/Plastic woven bag
- 2.Transportation:17tons/20'GP  
26tons/40'HQ

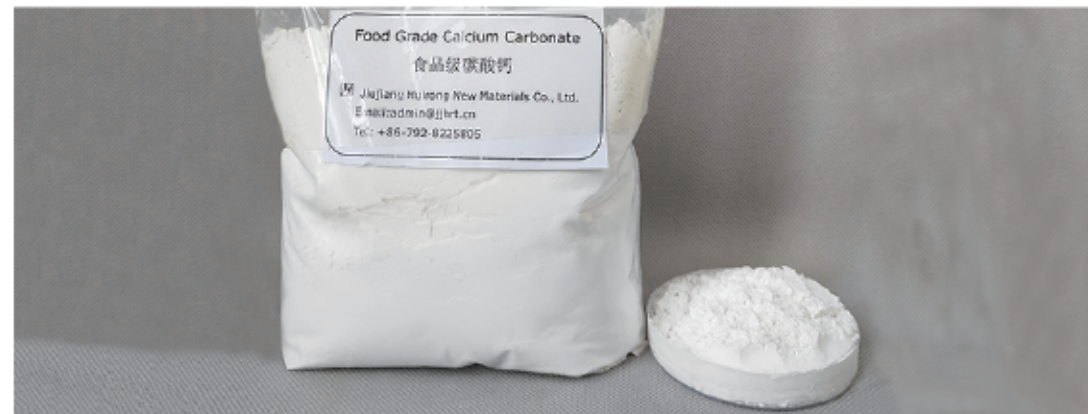
## Application:

- (1)Food additive precipitated calcium carbonate is used as leavening agent, nutrition enhancer, flour improver, anti-caking agent, fermentation agent, PH value adjuster, etc. in food;
- (2) Used as neutralizer, filter aid, buffer and dissolving agent,as filler and calcium source in industry;
- (3) In daily chemical products, due to its high purity and fine particles, it can be used as toothpaste, The role of fillers and abrasives in the production of cosmetics.



## Food Grade Calcium Carbonate

|                              |      |
|------------------------------|------|
| CaCO <sub>3</sub> content %≥ | 98.5 |
| HCL insoluble content %≤     | 0.02 |
| Cd(mg/kg)%≤                  | 2.0  |
| As(mg/kg)%≤                  | 3.0  |
| Pb(mg/kg)%≤                  | 1.0  |
| Hg(mg/kg)%≤                  | 0.1  |





## Activated Calcium Carbonate

### Product Description:

- 1.CAS NO:471-34-1
- 2.EINECS:207-439-9
- 3.STANDARD:HGT 2567-2006
- 4.HS CODE:2836500000

### Packaging And Transportation:

- 1.Packing:25kg/Plastic woven bag
- 2.Transportation:17tons/20'GP  
26tons/40'HQ

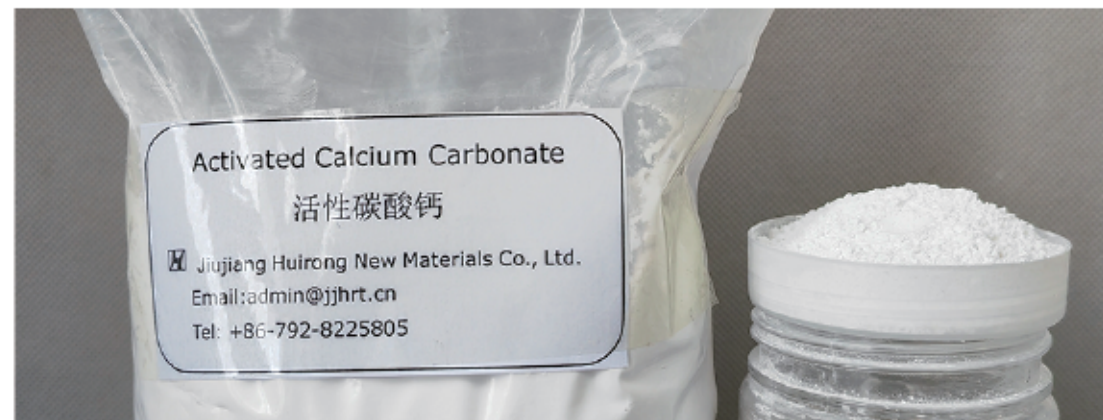
### Application:

- (1) Plastics: in plastics, it can improve the dimensional stability, hardness and rigidity of plastic products, improve the processing performance of plastics and the heat resistance and astigmatism of products,
- (2) Rubber: as filler in rubber, it can increase volume, reduce cost, improve processing performance and vulcanization performance;
- (3) Papermaking: it can be used as filler of paper, white pigment of copperplate paper, filler of calcium plastic paper, etc;
- (4) Coating: as filler in coating, it can play a skeleton role, so it is called "constitutional pigment"; in oily coating, the filling amount can reach 10-50%, and in water-based coating, the filling amount can reach 10-20%.
- (5) Activated calcium carbonate can be added to plastics and rubber to be compatible with oily branches. It is a white fine powder, the surface of the particles is covered with the active material, so that the dispersibility is good in the polymer body. It is used as a modified filler in plastics to improve the physicochemical properties. Used as a filler and pigment in paints , As a reinforcing agent in rubber to improve processing performance and reduce costs.



## Activated Calcium Carbonate

|  |      |
|--|------|
| CaCO <sub>3</sub> content %≥           | 97   |
| Oil absorption capacity ≤<br>(g/100g)% | 50   |
| PH( 10% suspension)                    | 9.6  |
| Activation grade% ≤                    | 98   |
| Whiteness degree% ≥                    | 95.5 |
| Mesh                                   | 1250 |





## Calcium Hydroxide(Industrial/Food Grade)

### Product Description:

1.CAS NO:1305-62-0

2.EINECS:215-137-3

3.STANDARD:HGT 4120-2009(Industrial)/  
GB 25572—2010(Food)

4.HS CODE:2825909000

### Packaging And Transportation:

1.Packing:25kg/Plastic woven bag

2.Transportation:16.5tons/20'GP  
26tons/40'HQ

### Application:

(1) For konjac: After mixing and emulsifying the raw materials, using the principle of calcium hydroxide to coagulate, konjac fine powder and food-grade calcium hydroxide are mixed in a ratio of 1000:1 to achieve the purpose of shaping the konjac pulp.

(2) Betel nut: Use calcium hydroxide aqueous solution to replace all or part of the existing alkaline material used to prepare brine. It can make up for the complex composition of the existing lime caramel brine, poor diffusivity, long lingering time, and bitter. Problems such as long after-drying time, great irritation, easy to brine, and short shelf life.

(3) Maternal and infant formula: used in milk powder and cream milk powder and its formulated products, infant formula foods, add a certain amount of food-grade calcium hydroxide to adjust the pH of milk powder so that it can be dissolved in water Evenly dispersed, and calcium ions can also play a role in nutritional enhancement.

(4) Calcium citrate, calcium gluconate: Food-grade calcium hydroxide is widely used as a raw material in the calcium production industry, among which calcium gluconate is common.

(5) Sugar making: In the sugar making process, food grade calcium hydroxide is used to neutralize the acid in the syrup, and then carbon dioxide is passed to make the remaining food grade calcium hydroxide into a precipitate and filtered out, so as to reduce the sugar Sour. It can also be combined with sucrose to form sucrose salt, so it can be used for molasses desugaring or sugar refining.

(6) Water treatment: Calcium hydroxide is alkaline and adsorptive. It can improve water quality and adjust the pH of neutralized water during water treatment. At the same time, it acts as a flocculant to adsorb and precipitate ionic substances (calcium ions and phosphoric acid) in water The roots are precipitated under phosphoric acid) to achieve the effect of softening the water quality.



## Industrial Grade Calcium Hydroxide

|  |    |
|--|----|
| Calcium Hydroxide<br>(Ca(OH) <sub>2</sub> )% ≥ | 90 |
|--|----|

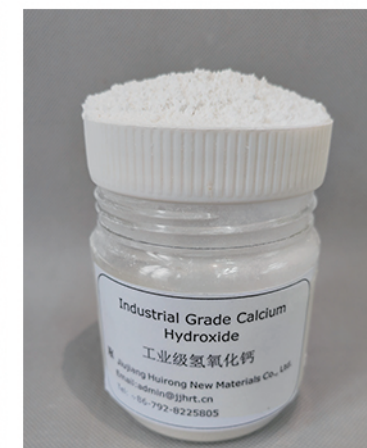
|             |     |
|-------------|-----|
| Moisture% ≤ | 1.5 |
|-------------|-----|

|              |    |
|--------------|----|
| Whiteness% ≥ | 85 |
|--------------|----|

|                   |     |
|-------------------|-----|
| Acid insoluble% ≤ | 1.0 |
|-------------------|-----|

|                   |     |
|-------------------|-----|
| Loss on drying% ≤ | 2.0 |
|-------------------|-----|

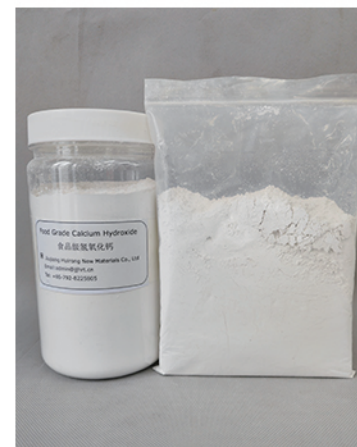
|                     |     |
|---------------------|-----|
| Residue(0.125mm)% ≤ | 4.0 |
|---------------------|-----|





## Food Grade Calcium Hydroxide

|  |      |
|--|------|
| Calcium Hydroxide<br>(Ca(OH) <sub>2</sub> )% ≥ | 96   |
| Magnesium and<br>alkali metals % ≤             | 2.0  |
| Heavy metal (mg/kg) ≤                          | 9.0  |
| Acid insoluble% ≤                              | 0.1  |
| Residue(0.045mm)% ≤                            | 0.32 |
| Loss on drying% ≤                              | 1.0  |





Contact Us

T: +86 792 8225805

P: +86 18720168991

Web : <http://www.jjhrgroup.com>



## Jiujiang Huirong New Materials Co., Ltd.

Phone: +86 18720168991

Tel: +86 7928225805

Email: [admin@jjhrt.cn](mailto:admin@jjhrt.cn)

Web: <http://www.jjhrgroup.com>

Address: No. 9 Jingjiu Road, Economic Development  
Zone, Jiujiang City, Jiangxi Province, China.