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FARAHAN COMPANY

TRADING COMPANY



Farahan Company

is one of the leaders in the chemical industry, specializing in the production and supply of ground calcium carbonate (GCC). With over two decades of experience in this field, the company utilizes the latest technologies and production methods to provide high-quality calcium carbonate that meets international standards. The primary goal of Farahan Company is to deliver superior quality products and ensure customer satisfaction, continually prioritizing the improvement of its products and enhancement of customer services. Thus, it is one of the main options for the production and supply of calcium carbonate for various industries. Notable features of this company's products include the wide usability and multiple applications of calcium carbonate in various sectors such as medicine, food, nutrition, and the environment. By choosing calcium carbonate from Farahan Company, customers can obtain a high-quality product at a reasonable price. Calcium carbonate (CaCO_3) is one of the most important minerals that exists in two main types: ground calcium carbonate (GCC) and precipitated calcium carbonate (PCC). This substance has diverse applications in various industries due to its unique physical and chemical properties.



Types of calcium carbonate

Mineral Calcium Carbonate (GCC)

Mineral calcium carbonate is found naturally in mines and includes the following types:

- Plaster stone
- Limestone
- Marble stone
- Dolomite
- Travertine

This type of calcium carbonate is used in various industries, including construction, paint and plastic production, and paper production, due to the presence of impurities and diversity in shape and structure.

Precipitated Calcium Carbonate (PCC)

Precipitated calcium carbonate is very pure and is produced in certain industrial processes. Due to its high purity, this type is used in the production of medicines that are suitable for human consumption. It is also used in the food industry and the production of food supplements.





Types of calcium carbonate products

Animal calcium carbonate

This type of calcium carbonate is produced specifically for use in livestock and poultry feed.

Features

Chemical formula: CaCO

Purity: at least 98% calcium carbonate

Particle size: usually around 100 to 200 microns

PH: between 8 and 10

Applications

Providing calcium needed for the growth and health of livestock

Improving feed quality and increasing nutritional value



Lumpy calcium carbonate

This type of calcium carbonate is used in lump form and mainly for industrial and construction purposes. This product is packed and sent according to the customer's needs and orders in both bulk and jumbo bag and pallet packaging, as well as in 25 and 30 kg bags.



Features

Purity: 97 to 98%

Particle size: larger than 2 mm

Density: about 2.7 grams per cubic centimeter

Applications

Use in construction industry, cement and mortar production

As a filler in plastic and paint industries



Powdered calcium carbonate

This type of calcium carbonate is produced in the form of very fine powder and has various uses. This product is packed and sent according to the customer's needs and orders in both bulk and jumbo bag and pallet packaging, as well as in 25 and 30 kg bags.



Features

Purity: 98% or higher

Particle size: less than 50 microns

PH: Between 9 and 10

Applications

As a filler in paint, plastic and rubber industries

In the production of paper and ceramics



Coated calcium carbonate

This type of calcium carbonate is coated with a coating of other materials (such as stearic acid).

Features

Purity: usually above 97%

Particle size: less than 25 microns

Density: varies depending on the type of coating

Applications

Improving mechanical and chemical properties in various industries

Use in the production of high quality colors





talc

Talc is a silicate mineral that is used in various industries due to its special properties.

Features

Chemical formula: $Mg_3Si_4O_{10}(OH)_2$

Purity: at least 98%

Particle size: usually below 40 microns

Applications

Use in cosmetic, paint, rubber and plastic industries

As an anti-sticking agent in the food industry





barite

Barite is a heavy mineral that is mainly used as a filler in various industries

Features

Chemical formula: BaSO_4

Purity: at least 90%

Density: about 4.2 grams per cubic centimeter

Applications

- Use in the oil and gas industry as a weighting agent for drilling fluids
- As a filler in paint and plastic industries

Afghan Talc (Super White)

Afghan talc is one of the best types of talc known for its high purity and unique properties

Features

Purity: above 99%

Particle size: usually below 20 microns

Applications

- Use in cosmetic industry
- As a filler in various industries such as paint and rubber



Kaolin powder

Kaolin is a type of clay that mainly consists of the mineral kaolinite.

Features

Chemical composition: $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$

Appearance: white or cream powder

Density: 2.6–2.7 g/cm³

Applications

- Ceramic and porcelain industries
- Paint and coating production
- Paper industry



bentonite powder

Bentonite is a type of clay that mainly consists of the mineral montmorillonite.

Features

Chemical composition: $\text{Al}_2\text{O}_3 \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$

Appearance: Gray to green powder

Density: 2.5-3 g/cm³

Applications

- Oil drilling and extraction
- Water and sewage treatment
- Food industry (as absorbent)



Lime (CaO)

Lime is calcium oxide obtained by heating calcium carbonate.

Features

Chemical formula: CaO

Appearance: white or gray powder

Density: 3.3 g/cm³

Applications

- Construction industry (cement)
- Water purification
- Glass production



Boiling powder (hydrated lime)

Quicklime is hydrated lime obtained by mixing lime with water

Features

Chemical formula: Ca(OH)₂

Appearance: white powder

Density: 2.2-2.4 g/cm³

Applications

- Mortar making in building construction
- Water and sewage treatment





Dolomite ($\text{CaMg}(\text{CO}_3)_2$)

Dolomite is a type of carbonate rock that contains calcium and magnesium.

Features

Chemical composition: $\text{CaMg}(\text{CO}_3)_2$

Appearance: white to gray powder

Density: $2.8\text{--}2.9 \text{ g/cm}^3$

Applications

- Production of cement and mortar
- As fertilizer in agriculture



Feldspar

Feldspar is a group of minerals that mainly consist of aluminum silicates.

Features

Chemical composition: $\text{NaAlSi}_3\text{O}_8$, KAlSi_3O_8 , $\text{CaAl}_2\text{Si}_2\text{O}_8$

Appearance: white or pink powder

Density: $2.5\text{--}2.7 \text{ g/cm}^3$

Applications

- Ceramic and glass industries
- As a filler in colors



Silica (SiO₂)

Silica is silicon dioxide that occurs naturally in nature.

Features

Chemical formula: SiO₂

Appearance: white or colorless powder

Density: 2.6–2.7 g/cm³

Applications

- Production of glass and ceramics
- Concrete and mortar industry





chalk

It is a natural and multi-purpose material that is obtained from gypsum and is usually sold in the form of powder or rigid blocks.



Features

Chemical composition: CaSO_4

Structure: white solid, soft and odorless

PH: dry 7.3, aqueous 10.4

Applications

- In construction
- Artifacts and molding
- In agriculture



Due to its large size, calcium carbonate rock cannot be used in any industry except construction. But today, by using stone crusher equipment, mills and various filters, any stone can be produced in very small sizes. Grinding calcium carbonate to micron size can expand its use in the industries and jobs that we mentioned above. Micron size measurement in mineral powders is based on "mesh" size. According to this standard, micronized calcium carbonate powder can be produced with mesh sizes of 50 to 100 - 200 mesh - 400 mesh - 800 mesh - 1200 mesh - 1500 mesh - 2500 mesh - 3500 mesh and above. The larger the mesh number, the smaller the size of the calcium powder particles.

The experienced and expert team of Farahan Company has been able to satisfy the needs of a large part of the domestic market with its products by using various mines and advanced equipment. Also, this company is proud of its expert and experienced personnel who, with high knowledge and experience, improve the quality. And it helps the development of products and plays an important role in international markets with extensive exports to neighboring countries.



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