
Company Profile

ROYAL CHEMEX

RC

ROYAL CHEMEX

Meet The Founder



Mohammed Othman

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I am MOhammed from Egypt and I am
The Founder and CEO of Royal
Chemex Company for Trading and
Export Calcium Carbonates Powder,
I am interested in working with
different people from all world,
Royal Chemex is Company to trusted.

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About Company

Royal Chemex an Egyptian company working in exporting Chemical Field like Calcium Carbonates, Petrochemicals and Cement.

هي شركة مصرية حديثة الانشاء تعمل في مجال تجارة و تصدير
كربونات الكالسيوم و الاسمنت و البتروكيماويات

Products

Calcium carbonates

CEMENT

PetroChemicals

| Item | Item code | D50 | D97 | Millimeter size | Mesh size |
|------|---------------|---|-------------|-----------------|-----------|
| 01 | GSH-CC08 | 1.90 m Max | 8 ± 1.00 m | 0.008 | ~1880 |
| 02 | GSH-CC10 | 2.30 m Max | 10 ± 1.00 m | 0.010 | ~1250 |
| 03 | GSH-CC15 | 3.20 m Max | 15 ± 2.00 m | 0.015 | ~1000 |
| 04 | GSH-CC20 | 4.50 m Max | 20 ± 2.00 m | 0.020 | ~650 |
| 05 | GSH-CC25 | 5.50 m Max | 25 ± 2.00 m | 0.025 | ~600 |
| 06 | GSH-MT30 | 6.50 m Max | 30 ± 2.00 m | 0.030 | ~500 |
| 07 | GSH-CC45 | 14.00 m Max | 45 ± 2.00 m | 0.045 | ~325 |
| 08 | GSH-CC.50 mm | Particle size range TO 500 m | | 0.50 mm | |
| 09 | GSH-CC 1 mm | Particle size range TO 1000 m | | 1.0 mm | |
| 10 | GSH-CC 1.5 mm | Particle size range TO 1500 m | | 1.5 mm | |
| 11 | GSH-CC 3 mm | Particle size range from 2000 m to 3000 m | | 2 - 3 mm | |
| 12 | GSH-CC 4 mm | Particle size range from 3000 m to 4000 m | | 3 – 4 mm | |
| 13 | GSH-CC 5 mm | Particle size range from 4000 m to 5000 m | | 4 – 5 mm | |
| 14 | GSH-CC 3 CM | Particle size range from 1 CM to 3 CM | | 10 – 30 mm | |
| 15 | GSH-CC 8 CM | Particle size range from 3 CM to 8 CM (Lumps) | | 30 – 80 mm | |
| 16 | Chips | As per Buyer's inquiries | | | |

Composition

| CHEMICAL COMPOSITIONS | | CHEMICAL COMPOSITIONS | |
|--|----------------------|--------------------------------|------------|
| Content CaCO ₃ | 99.5% min | Brightness | 96% min |
| Content Mg CO ₃ | 0.08% max | Whiteness | 98% min |
| Content Fe ₂ O ₃ | 0.01% max | Humidity | 0.2% max |
| Content Al ₂ O ₃ | 0.01% max | Water Demand/ml/100gm | 0% |
| Content SiO ₂ | 0.06% max | Oil absorption/ml/100gm | 17.7 |
| Content Na ₂ O | 0.05% max | Ph | 9 |
| Bulk density | 0.8g/cm ³ | Lost content when being burned | 43.89% max |

Contact Us



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ElMinia - Egypt

CALCIUM CARBONATES USES

1-Construction

In the world of construction, calcium carbonate plays a major role. It is a major component of cement, the backbone of modern infrastructure, providing strength and stability to buildings, bridges and roads. It also forms the basis of plaster and mortar, and is essential for creating smooth surfaces and holding elements together. Calcium carbonate even finds its way into glass, adding clarity and sparkle to windows and architectural wonders.

CHEMICAL INDUSTRIES

Calcium carbonate is used in a variety of chemical industries, including:

- Papermaking: The chemical diversity of calcium carbonate extends beyond construction. In papermaking, it serves as a filler and coating, improving the whiteness and opacity of paper.
- Paint industry: For paints and coatings, it provides texture and durability.
- Plastics industry: It acts as a strengthening agent, enhancing the strength and flexibility of plastic products.
- Pharmaceutical industry: Calcium carbonate is used in medicine as a nutritional supplement, as calcium helps maintain healthy bones and teeth.

AGRICULTURE AND FOOD

Agriculture

Calcium carbonate is used in agriculture as a source of calcium, as calcium helps plants grow and maintain their health. Calcium carbonate is also used in the manufacture of fertilizers.

Food

Calcium carbonate is used in the food industry as a food additive, as it helps prevent caking and improve texture. Calcium carbonate is also used in the manufacture of sweets and drinks.

OTHER APPLICATIONS

Calcium carbonate is used in a variety of other applications, such as:

- Rubber industry
- Textile industry
- Tire industry
- Timber industry

BENEFITS OF CALCIUM CARBONATE IN THE PAINT INDUSTRY

calcium carbonate (CaCO_3) , commonly known as limestone or chalk, is a basic material in the paint industry. It plays an important role in various paint properties and provides many benefits.

Functions of calcium carbonate in paint:

Filler: Calcium carbonate is used as a filler to reduce the cost of paint without compromising its quality.

Property enhancer: Calcium carbonate improves coating properties such as viscosity, covering ability, and corrosion resistance.

Bleach: Calcium carbonate is used as a bleach to increase the whiteness of paint.

Types of calcium carbonate used in paint:

Ground Calcium Carbonate (GCC): This is the most common type and provides good value for money.

Precipitated Calcium Carbonate (PCC): It has a smaller particle size and higher purity, which improves the coating properties.

Granulated Calcium Carbonate: This has an even smaller particle size than PCC, giving better performance in some types of coatings.

Effects of calcium carbonate on paint properties:

Viscosity: Calcium carbonate increases the viscosity of the paint, which may affect the ease of application.

Gloss: Calcium carbonate reduces the gloss of paint.

Covering ability: Calcium carbonate increases the coating's covering ability.

Corrosion resistance: Calcium carbonate increases the paint's resistance to corrosion.

Criteria for selecting calcium carbonate for paint:

Particle size: The particle size of calcium carbonate should be compatible with the type of coating.

Color: The color of calcium carbonate should be bright white.

Other Uses Of Calcium Carbonate In The Paint Industry

Making putty: Calcium carbonate is used as a filler in making putty.

Varnish making: Calcium carbonate is used as a filler in making varnish.

Making Basics: Calcium carbonate is used as a filler in making basics.

Purity: Calcium carbonate must be free of impurities.

PLASTICS INDUSTRY AND THE ROLE OF CALCIUM CARBONATE IN PRODUCTION

Plastic is a versatile industrial material used in a variety of products, including packaging, clothing, household items, and electronic devices. Plastic is produced through a process called polymerization, which involves linking monomer molecules together to form long chains.

calcium carbonate (CaCO_3) in the plastics industry

Calcium carbonate is an important raw material in the plastics industry. They are used as a filling and reinforcing agent, which helps improve the properties of plastic, such as its hardness, strength, and stability.

Using calcium carbonate (CaCO_3) as a filling agent

Calcium carbonate is used as a filling agent in the plastics industry to add volume and weight to plastic products. This can help improve the stability of products and prevent damage.

Using calcium carbonate (CaCO_3) as a reinforcing agent

Calcium carbonate is used as a reinforcing agent in the plastics industry to add strength and hardness to plastic products. This can help make products more resistant to breakage or tearing.

GALLERY





















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& 1.5 مللي

