



شركة قطر الوطنية لصناعة الأسمنت (ش.م.ع.ق.)

QATAR NATIONAL CEMENT COMPANY (Q.P.S.C)

رأس مال الشركة 653,528,940 ريال قطري (مدفوع) The capital of company QAR 653,528,940 (Paid)



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TECHNICAL DATA SHEET (TDS)

(CALCIUM CARBONATE POWDER/ Limestone Powder)

Product Name: CALCIUM CARBONATE POWDER

Product Code: FGICALPOW01

Chemical Formula: CaCO_3

Manufacturer's Name: Qatar National Cement Company

Address: PO Box 1333 Doha – Qatar

1- PRODUCT DESCRIPTION:

CALCIUM CARBONATE POWDER is a fine, white to off-white powder produced by crushing then grinding limestone rocks. It is primarily composed of calcium carbonate (CaCO_3) and may contain trace amounts of other minerals depending on the source.

2- TECHNICAL SPECIFICATIONS

Chemical Composition:

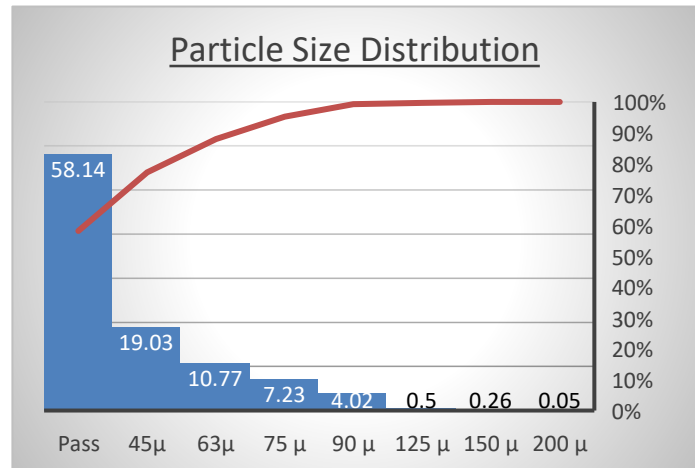
- Calcium Carbonate (CaCO_3): $\geq 90\%$
- Magnesium Carbonate (MgCO_3): $\leq 5\%$
- Other Trace Minerals: $\leq 5\%$

Particle Size Distribution:

- Average Particle Size: 45-90 microns
- D50 (median particle size): 45 microns
- Bulk Density: 1.38-1.42 g/cm³
- pH Value: 7.00

3- PHYSICAL PROPERTIES:

- Appearance: Fine white to off-white powder
- Odor: Odorless
- Melting Point: Approximately 825°C (1,517°F)
- Solubility in Water: Insoluble



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Head office Tel.: 44694354 / 5/6/7- 44693800 : المكتب الرئيسي
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4- **APPLICATIONS:**

CALCIUM CARBONATE POWDER is widely used in various industries for its calcium carbonate content and neutralizing properties.

Some common applications include:

- Manufacturing of paints, coatings, and adhesives
- Production of plastics and rubber products
- Construction materials such as concrete and mortar
- Soil stabilization and agriculture
- Flue gas desulfurization in power plants
- Animal feed supplementation

5- **HANDLING AND STORAGE:**

- Handling: Avoid inhalation of dust.
- Use appropriate personal protective equipment (PPE), including respiratory protection and gloves.
- Storage: Store in a dry, well-ventilated area away from incompatible materials.
- Keep containers tightly closed when not in use.

6- **HEALTH AND SAFETY:**

- Inhalation: Inhalation of dust may cause respiratory irritation. Use proper respiratory protection in dusty environments.
- Skin Contact: Prolonged or repeated exposure may cause skin irritation. Wash thoroughly after handling.
- Eye Contact: May cause mechanical irritation. Wear protective eyewear when handling.
- Ingestion: Ingestion is not a likely route of exposure. Avoid ingestion.

7- **ENVIRONMENTAL IMPACT:**

CALCIUM CARBONATE POWDER is not considered environmentally hazardous. Dispose of it in accordance with local regulations.

8- **REGULATORY INFORMATION:**

This product complies with relevant regulations regarding the handling, transportation, and storage of limestone powder.

9- **DISCLAIMER:**

- This Technical Data Sheet is provided for informational purposes only and is not intended as a warranty or specification.
- Users should conduct their own tests to determine the suitability of the product for their specific applications.