



# TECHNICAL DATA SHEET

## GROUND CALCIUM CARBONATE (GCC)

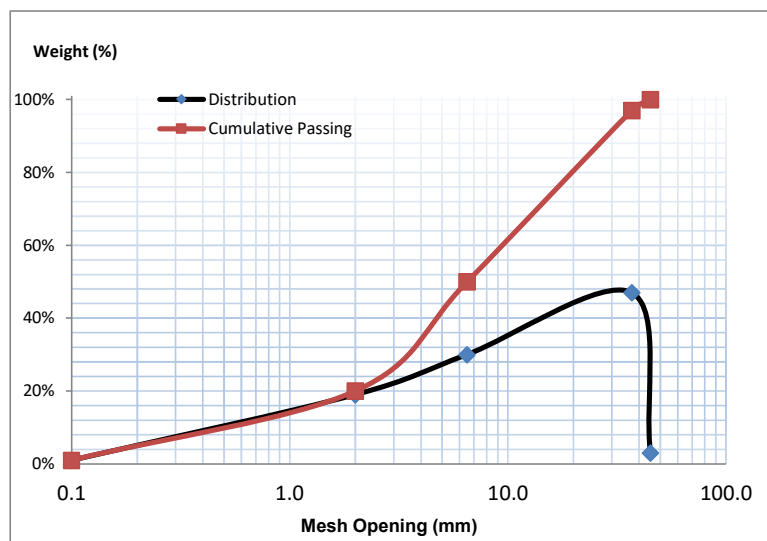
GCC-37

### General Properties

Ground Calcium Carbonate (GCC) from MAYN is a natural product that is extracted from Minya quarries in Egypt. It is ground according to industry's requirements. Sieves are used to give particle size distribution (PSD). It is used in glaze, plastics, rubber, paper industry, ceramics, sanitary ware, coatings, paintings, adhesives, sealants, mastics, food industry, and other specialty applications where color, binder demand are of importance.

### Chemical Composition

| IUPAC Name        | Chemical Formula               | Weight (%) |
|-------------------|--------------------------------|------------|
| Calcium carbonate | CaCO <sub>3</sub>              | > 99.2%    |
| Calcium oxide     | CaO                            | > 55.9%    |
| Silicon dioxide   | SiO <sub>2</sub>               | < 0.09%    |
| Iron (III) oxide  | Fe <sub>2</sub> O <sub>3</sub> | < 0.01%    |
| Aluminum oxide    | Al <sub>2</sub> O <sub>3</sub> | < 0.04%    |
| Magnesium oxide   | MgO                            | < 0.05%    |
| Insoluble content | HCL                            | < 0.20%    |
| Loss in Ignition  | L.O.I.                         | 43.89%     |



| Physical Properties |                        |
|---------------------|------------------------|
| Dry brightness      | > 96%                  |
| Specific gravity    | 2.7 g/cm <sup>3</sup>  |
| Refractive index    | 1.59                   |
| Hardness (Moh's)    | 3                      |
| PH                  | < 9.0                  |
| Packed bulk density | 1.43 g/cm <sup>3</sup> |
| Oil absorption      | 14.5 g/100 g           |
| DOP absorbtion      | 25.3 g/100 g           |
| Moisture            | < 0.20%                |
| D (97)              | 37 µM (Micron)         |
| D (50)              | 6.5 µM (Micron)        |
| < 2.0 µM            | < 20%                  |

| Type of Packing     |            |
|---------------------|------------|
| Jumbo bag           |            |
| PP bag 25 kg        |            |
| Particle Size Range | Weight (%) |
| 0.00 – 2.00 µM      | < 20.0%    |
| 2.00 – 6.50 µM      | > 30.0%    |
| 6.50 – 37.0 µM      | > 47.0%    |
| 37.0 – 45.0 µM      | < 3.00%    |

| Sieve   | ISO-3310     | Tyler    | ASTM-E11 | BS-410   | DIN-4188  | Cumulative Weight (%) |
|---------|--------------|----------|----------|----------|-----------|-----------------------|
| 2.0 µM  | 2.0 Microns  | -        | -        | -        | 0.0020 mm | 20%                   |
| 6.5 µM  | 6.5 Microns  | -        | -        | -        | 0.0065 mm | 50%                   |
| 37.0 µM | 37.0 Microns | Mesh 400 | No. 400  | Mesh 400 | 0.0370 mm | 97%                   |
| 45.0 µM | 45.0 Microns | Mesh 325 | No. 325  | Mesh 350 | 0.0450 mm | 100%                  |

Ground calcium carbonate is a prepared natural product. All data are approximate values and do not represent any warranty

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**MAYN**

Address: 306 Square Towers, Cairo – Egypt

Phone: +2 0114 333 888 0 / +2 0100 999 0 773

Email: [info@mayntrade.com](mailto:info@mayntrade.com) Website: [www.mayntrade.com](http://www.mayntrade.com)