



TECHNICAL DATA SHEET

GROUND CALCIUM CARBONATE (GCC)

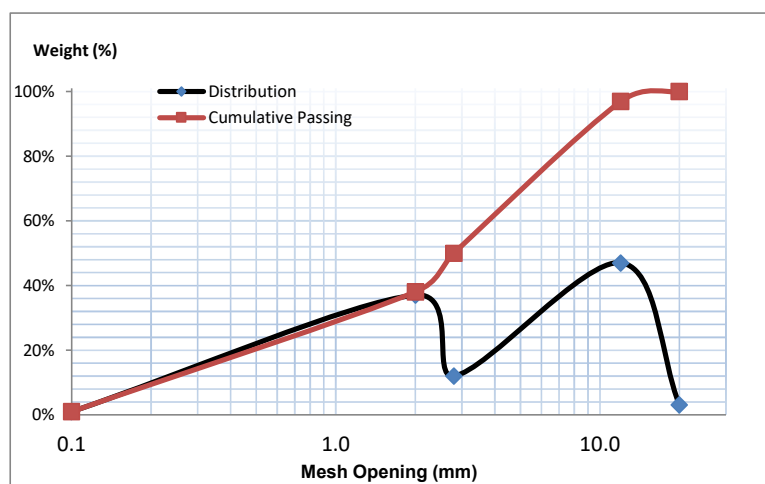
GCC-12

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 ₃	> 99.2%
Calcium oxide	CaO	> 55.9%
Silicon dioxide	SiO ₂	< 0.09%
Iron (III) oxide	Fe ₂ O ₃	< 0.01%
Aluminum oxide	Al ₂ O ₃	< 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 ³
Refractive index	1.59
Hardness (Moh's)	3
PH	< 9.0
Packed bulk density	1.7 g/cm ³
Oil absorption	14.5 g/100 g
Moisture	< 0.20%
D (97)	12 µm (Micron)
D (50)	2.8 µm (Micron)
< 2.0 µm	< 38%

Type of Packing

Jumbo bag
PP bag 25 kg

Particle Size Range	Weight (%)
0.00 – 2.00 µm	< 38.0%
2.00 – 2.80 µm	> 12.0%
2.80 – 12.0 µm	> 47.0%
12.0 – 20.0 µm	< 3.00%

Sieve	ISO-3310	Tyler	ASTM-E11	BS-410	DIN-4188	Cumulative Weight (%)
2.0 µm	2.0 Microns	-	-	-	0.0020 mm	38%
2.8 µm	2.8 Microns	-	-	-	0.0028 mm	50%
12.0 µm	12.0 Microns	-	-	-	0.0120 mm	97%
20.0 µm	20.0 Microns	Mesh 625	-	Mesh 625	0.0200 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

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