CARBOCORE
MINERALS & POLYMERS

TECHNICAL DATA SHEET

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MINERALS & POLYMERS

UNCOATED / GCC

CC15

Natural ground calcium carbonate

HIGH-PURITY LIMESTONE / MINYA, EGYPT

PRODUCTION PLANT / CARBOCORE - MINYA, EGYPT

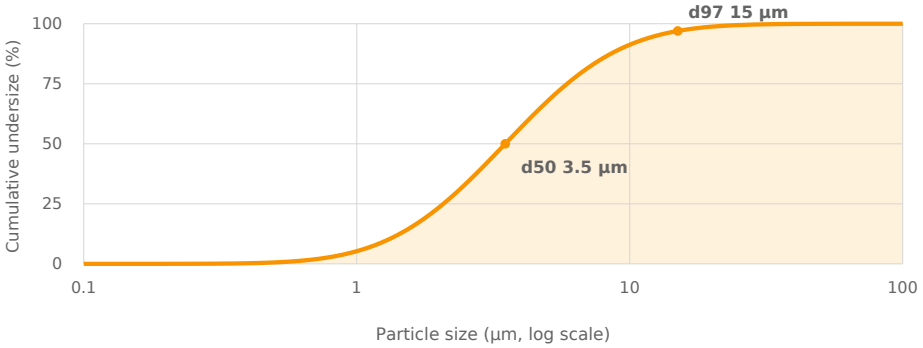
Natural, very fine ground calcium carbonate produced from high-purity, very white Minya limestone using air-classifier mill technology.

$CaCO_3$ CONTENT	MEDIAN · d50	TOP CUT · d97	BRIGHTNESS R(Y)
≥ 99.60 %	3.5 µm	15 µm	≥ 96.5 %

01 PARTICLE SIZE DISTRIBUTION

Malvern Mastersizer 3000

LASER DIFFRACTION



PARTICLE-SIZE PARAMETERS

Median · d50
3.5 ± 0.2 µm

Top cut · d97
15 ± 0.5 µm

Particles < 2 µm
33 ± 2 %

45 µm sieve residue
≤ 0.01 %

Sieve method: ISO 787/7

Illustrative curve based on nominal d50 and d97; not a measured trace. Tolerances and < 2 µm values are listed separately.

02 CHEMICAL ANALYSIS

Raw material · mass % unless stated

$CaCO_3$	**≥ 99.60 %**
CaO	**≥ 55.80 %**
MgO	**≤ 0.15 %**
Fe_2O_3	**≤ 0.01 %**
Al_2O_3	**≤ 0.03 %**
SiO_2	**≤ 0.05 %**
HCl insoluble	**≤ 0.15 %**
Loss on ignition (1000 °C)	**43.95 %**
$MgCO_3$	**≤ 0.31 %**
Cr_2O_3	**≤ 4 ppm**

03 PHYSICAL PROPERTIES

Product characteristics

Loose bulk density	**0.66 g/cm³**
True specific gravity ISO 787/10	**2.71 g/cm³**
Moisture, ex works ISO 787/2	**≤ 0.20 %**
pH ISO 787/9	**≤ 9.0**
Oil absorption ISO 787/5	**18 ± 0.5 g/100 g**
DOP absorption ISO 787/5	**29.5 ± 0.5 g/100 g**
Hardness · Mohs	**3.0**
Refractive index	**1.59**

04 OPTICAL PROPERTIES

Brightness & colour

Brightness R(Y) C/2° · DIN 53163	**≥ 96.5 %**
Yellowness index ASTM E313	**≤ 2.4**

APPLICATIONS

Paints: Emulsion & alkyd paints, primers; **Plastics:** Rigid & plasticised PVC, injection moulding, calendered sheets; **Paper:** Wallpaper; **Others:** Rubber, adhesives, sealants.

PACKAGING

25 kg bags or 1 t big bags. Store sealed and dry. Refer to SDS. Industrial use only; not for pharmaceutical or medicinal use.

The information in this Technical Data Sheet relates only to the specific material designated herein and does not relate to its use in combination with any other material or in any process. Recipients of this information must exercise their own judgement as to the appropriateness of its use, and it is the user's responsibility to assess the material's suitability for a particular purpose prior to such use. Values are typical and subject to normal production tolerances.

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