



Optifil® T CALCIUM CARBONATE

DESCRIPTION

A unique ground calcium carbonate from a specialty, high purity calcium carbonate and processed at Huber's largest GCC plant in Quincy, Illinois. Key advantages of ultra-fine particle distribution, high surface area, round particle shape, and low silica content are enhanced by processing with a proprietary fatty acid based surface treatment which allow the material to be used as an extender in pipe, conduit, rubber, plastics, and PVC compounds.

TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Sedigraph®, μ)
Brightness (Hunter reflectance)
Oil Absorption (lbs oil / 100lbs, ASTM D281)
Moisture (% , ASTM D280)
Loose Bulk Density (lb/ft³, ASTM C110)
Compacted Bulk Density (lb/ft³, ASTM C110)
Acid Solubility (% in HCl)
Hegman Grind (ASTM D1210)

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Optifil T

1.7
92
16
0.2
50
70
99.8
6.5

PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size
+325 (45μm)

%
0.005

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate
Magnesium Carbonate
Silica and Silicates
Other

%
99.3
0.4
0.05
0.2

MINERAL PROPERTIES

Color
Alkalinity (as NaOH, ASTM D1208)
pH (ASTM D1208)
Hardness (Hand. Of Chem. & Phy)
Solubility (Hand. Of Chem. & Phy)
Particle Shape (Microscope)
Specific Gravity (ASTM D153)
Refractive Index (Hand. Of Chem. & Phy)
Weight per Gallon (s.g. x 8.345)
Linear Expansion Coefficient (Hand. Of Chem. & Phy)

Quincy, Illinois
White
0.4 mg/gm
9.4 (saturated solution)
3 Mohs, relatively non-abrasive
0.0035 gm/100 mL H₂O at 100°C
Irregular, uniaxial
2.7
1.6
22.6 lbs/solid gallon
4.3 x 10⁻⁶/°C

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