



Hubercarb® M3 CALCIUM CARBONATE

DESCRIPTION

An ultra-fine ground calcium carbonate produced from a uniform, high calcium limestone deposit in Marble Falls, Texas. Carefully controlled particle distribution allows M3 to be used a wide range of applications including paints, coatings, PVC compounds, caulks, silicone rubbers, plastics, and drilling fluids.

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TYPICAL PHYSICAL PROPERTIES

	M3
Median Particle Size (Sedigraph®, μ)	3.3
Brightness (Hunter reflectance)	87
Oil Absorption (lbs oil/ 100 lbs, ASTM D281)	17
Moisture (% , ASTM D280)	0.2
Water Demand (ml/ 100 g)	50
Loose Bulk Density (lb/ft ³ , ASTM C110)	40
Compacted Bulk Density (lb/ft ³ , ASTM C110)	60
Acid Solubility (% in HCl)	92
Hegman Grind (ASTM D1210)	6.5

PARTICLE SIZE (SCREEN) ANALYSIS

	%
Mesh size	<u> </u>
+325 (45μm)	0.01

TYPICAL CHEMICAL ANALYSIS

	%
Calcium Carbonate	<u>92.0</u>
Magnesium Carbonate	1.5
Silica and Silicates	4.5
Other	2.0

MINERAL PROPERTIES

Color	Marble Falls, Texas
Alkalinity (as NaOH, ASTM D1208)	White
pH (ASTM D1208)	0.4 mg/gm
Hardness (Hand. Of Chem. & Phy)	9.4 (saturated solution)
Solubility (Hand. Of Chem. & Phy)	3 Mohs, relatively non-abrasive
Particle Shape (Microscope)	0.0035 gm/100 mL H ₂ O at 100°C
Specific Gravity (ASTM D153)	Irregular, uniaxial
Refractive Index (Hand. Of Chem. & Phy)	2.7
Weight per Gallon (s.g. x 8.345)	1.6
Linear Expansion Coefficient (Hand. Of Chem. & Phy)	22.6 lbs/solid gallon
	4.3 x 10 ⁻⁶ /°C

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