



**Hubercarb® M4
CALCIUM CARBONATE**

DESCRIPTION

An fine ground calcium carbonate produced from a uniform, high calcium limestone deposit in Marble Falls, Texas. Carefully controlled particle distribution allows M4 to be used in a wide range of applications including paints, coatings, PVC compounds, caulks, silicone rubbers, and plastics.

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TYPICAL PHYSICAL PROPERTIES

	<u>M4</u>
Median Particle Size (Sedigraph®, μ)	4.5
Brightness (Hunter reflectance)	86
Oil Absorption (lbs oil/ 100 lbs, ASTM D281)	17
Moisture (% , ASTM D280)	0.2
Water Demand (ml/ 100 g)	45
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)	5.5

PARTICLE SIZE (SCREEN) ANALYSIS

	<u>%</u>
Mesh size	
+325 (45μm)	0.01

TYPICAL CHEMICAL ANALYSIS

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

MINERAL PROPERTIES

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

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