



Hubercarb® M300 CALCIUM CARBONATE

DESCRIPTION

A medium-fine ground calcium carbonate produced from a uniform, high calcium limestone deposit in Marble Falls, Texas. Carefully controlled particle distribution allows M300 to be used a wide range of applications including paints, coatings, adhesives, caulks, and concrete building products. Acid solubility above 92% and location make M300 ideal for use in oilfield drilling fluids.

TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Cilas®, μ)	8
Brightness (Hunter reflectance)	84
Oil Absorption (lbs oil / 100lbs, ASTM D281)	13
Moisture (% , ASTM D280)	0.1
Water Demand (mL/100 gms)	44
Loose Bulk Density (lb/ft ³ , ASTM C110)	50
Compacted Bulk Density (lb/ft ³ , ASTM C110)	65
Acid Solubility (% in HCl)	92

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M300

PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size	%
- 325	<u>98</u>

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate	%
Magnesium Carbonate	92.0
Silica and Silicates	1.5
Other	4.5
	<u>2</u>

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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