



Hubercarb® G325
CALCIUM CARBONATE

DESCRIPTION

A high purity, medium fine ground calcium carbonate produced from a high brightness marble deposit in Georgia. Carefully controlled particle distribution allows G325 to be used a wide range of applications including paints, coatings, adhesives, caulks, and concrete building products. Acid solubility above 95% makes G325 ideal for use in oilfield drilling fluids.

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TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Sedigraph®, μ)	G325
Brightness (Hunter reflectance)	10.5
Oil Absorption (lbs oil / 100lbs, ASTM D281)	93.5
Moisture (% , ASTM D280)	15
Water Demand (mL/100 gms)	0.2
Loose Bulk Density (lb/ft ³ , ASTM C110)	42
Compacted Bulk Density (lb/ft ³ , ASTM C110)	52
Acid Solubility (% in HCl)	79
	95 - 98.5

PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size	<u>%</u>
-325 (45μm)	99

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate	<u>%</u>
Magnesium Carbonate	96.0
Silica and Silicates	2.5
Other	0.4
	1.5

MINERAL PROPERTIES

Color	Marble Hill, Georgia
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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