



Hubercarb® G3
CALCIUM CARBONATE

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DESCRIPTION

A high purity, ultra-fine ground calcium carbonate produced from a high brightness marble deposit in Georgia for applications that require high brightness or pure tints. Carefully controlled particle distribution allows the material to be used in a wide range of applications including paints, coatings, PVC pipe, rubber, plastics, and construction building products.

TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Sedigraph®, μ)	G3 3.2
Brightness (Hunter reflectance)	95
Oil Absorption (lbs oil / 100lbs, ASTM D281)	18
Moisture (% , ASTM D280)	0.2
Water Demand (ml/100g)	57
Loose Bulk Density (lb/ft ³ , ASTM C110)	47
Compacted Bulk Density (lb/ft ³ , ASTM C110)	60
Acid Solubility (% in HCl)	95 - 98.5
Hegman Grind	6

PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size	<u> </u> %
+325 (45μm)	0.005

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate	<u> </u> %
Magnesium Carbonate	96.0
Silica and Silicates	2.5
Other	0.4
	1.1

MINERAL PROPERTIES

Color	Marble Hill, GA 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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