



Hubercarb® G8
CALCIUM CARBONATE

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DESCRIPTION

A high purity, 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 compounds, rubber and plastics.

TYPICAL PHYSICAL PROPERTIES

| | G8 |
|---|-----------|
| Median Particle Size (Sedigraph®, μ) | 7 |
| Brightness (Hunter reflectance) | 94 |
| Oil Absorption (lbs of oil / 100lbs, ASTM D281) | 15 |
| Moisture (% , ASTM D280) | 0.2 |
| Water Demand (mL/100 gms) | 41 |
| Loose Bulk Density (lb/ft ³ , ASTM C110) | 50 |
| Compacted Bulk Density (lb/ft ³ , ASTM C110) | 85 |
| Acid Solubility (% in HCl) | 95 - 98.5 |
| Hegman Grind (ASTM D1210) | 3 |

PARTICLE SIZE (SCREEN) ANALYSIS

| Mesh size | % |
|-------------|----------|
| +325 (45μm) | 0.6 |

TYPICAL CHEMICAL ANALYSIS

| | % |
|----------------------|----------|
| Calcium Carbonate | 96.0 |
| Magnesium Carbonate | 2.5 |
| Silica and Silicates | 0.4 |
| Other | 1.1 |

MINERAL PROPERTIES

| | |
|---|--|
| Color | Marble Hill, Georgia 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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