



Marble Elite Alpha®
CALCIUM CARBONATE

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DESCRIPTION

A high purity, medium ground calcium carbonate produced from a high brightness marble deposit in Georgia, which has a carefully controlled particle distribution specifically designed for cultured marble applications. The particle distribution provides optimal particle packing with low off-color speck levels, which in turn imparts superior surface aesthetics when final appearance is critical such as in clear gel-coat products.

TYPICAL PHYSICAL PROPERTIES

Median Particle Size (μ)
Moisture (% , ASTM D280)
Loose Bulk Density (lb/ft³, ASTM C110)
Compacted Bulk Density (lb/ft³, ASTM C110)
Acid Solubility (% in HCl)

Marble Elite Alpha

60
0.2
87
115
95 - 98.5

PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size
+50
-100
-200
-325

%
5
66
43
32

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate
Magnesium Carbonate
Silica and Silicates (MSHA spec: <4%)
Other

%
96.0
2.5
0.4
1.1

MINERAL PROPERTIES

Color
Alkalinity (as NaOH, ASTM D1208)
pH (ASTM D1208)
Hardness (Hand. Of Chem. & Phy)
Solubility (Hand. Of Chem. & Phy)
Particle Shape (Microscope)
Specific Gravity (ASTM D153)
Refractive Index (Hand. Of Chem. & Phy)
Weight per Gallon (s.g. x 8.345)
Linear Expansion Coefficient (Hand. Of Chem. & Phy)

Marble Hill, Georgia
White
0.4 mg/gm
9.4 (saturated solution)
3 Mohs, relatively non-abrasive
0.0035 gm/100 mL H₂O at 100°C
Irregular, uniaxial
2.7
1.6
22.6 lbs/solid gallon
4.3 x 10⁻⁶/°C

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