



Hubercarb® W3NT
CALCIUM CARBONATE

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DESCRIPTION

A unique ground calcium carbonate from a specialty, high purity calcium carbonate and processed at Huber's largest GCC plant in Quincy, Illinois. Key advantages of fine particle distribution, high surface area, round particle shape, and low silica content are enhanced by processing with a proprietary fatty acid based surface treatment. Applications include coatings, compression molded plastics, PVC pipe, rubber, plastics, and adhesives.

TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Sedigraph®, μ)	<u>W3NT</u> 3
Brightness (Hunter reflectance)	92
Oil Absorption (lbs oil / 100lbs, ASTM D281)	15
Moisture (% , ASTM D280)	0.2
Loose Bulk Density (lb/ft ³ , ASTM C110)	50
Compacted Bulk Density (lb/ft ³ , ASTM C110)	55
Acid Solubility (% in HCl)	99.8
Hegman Grind (ASTM D1210)	6

PARTICLE SIZE (SCREEN) ANALYSIS

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

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate	<u> </u> %
Magnesium Carbonate	99.3
Silica and Silicates	0.4
Other	0.05
	0.2

MINERAL PROPERTIES

Color	Quincy, Illinois
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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