



**Hubercarb® W3N**  
**CALCIUM CARBONATE**

Cumberland Center II  
3100 Cumberland Blvd  
Suite 600  
Atlanta, GA 30339  
phone: (678) 247-7300  
fax: (678) 247-2797  
e-mail: [hubermaterials@huber.com](mailto:hubermaterials@huber.com)  
[www.hubermaterials.com](http://www.hubermaterials.com)

**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 include controlled ultra-fine particle distribution, high surface area, round particle shape, low moisture, and low silica content. Applications for W3N include coatings, compression molded plastics, PVC pipe, rubber, plastics, and oilfield drilling fluids where its 99%+ calcium carbonate content yields almost complete acid solubility.

**TYPICAL PHYSICAL PROPERTIES**

	<u>W3N</u>
Median Particle Size (Sedigraph®, μ)	3
Brightness (Hunter reflectance)	92
Oil Absorption (lbs oil / 100lbs, ASTM D281)	15
Moisture (% , ASTM D280)	0.2
Loose Bulk Density (lb/ft <sup>3</sup> , ASTM C110)	50
Compacted Bulk Density (lb/ft <sup>3</sup> , ASTM C110)	55
Acid Solubility (% in HCl)	99.8
Hegman Grind (ASTM D1210)	6

**PARTICLE SIZE (SCREEN) ANALYSIS**

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

**TYPICAL CHEMICAL ANALYSIS**

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

**MINERAL PROPERTIES**

Color	Quincy, Illinois 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 <sub>2</sub> 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 <sup>-6</sup> /°C

THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Refer to Huber's Standard Conditions of Sale for the only express warranties applicable to the Huber products. Products incorporating Huber products are not warranted by Huber. In no event is Huber liable for consequential damages. Hubercarb® is a registered trademark of J.M. Huber Corporation for calcium carbonate.