



## Hubercarb® W3 CALCIUM CARBONATE

### 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 fine particle distribution, high surface area, round particle shape, low moisture, and low silica content. Applications for W3 include calcium source for animal feed and nutrition formulations, compression molded plastics, PVC compounds, rubber, plastics, and oilfield drilling fluids where its 99%+ calcium carbonate content yields almost complete acid solubility.

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### TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Sedigraph®, μ)	4
Brightness (Hunter reflectance)	92
Oil Absorption (lbs oil / 100lbs, ASTM D281)	15
Moisture (% , ASTM D280)	0.1
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

### W3

### PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size	%
+325 (45μm)	0.005

### TYPICAL CHEMICAL ANALYSIS

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

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