



**Hubercarb® Q100**  
**CALCIUM CARBONATE**

**DESCRIPTION**

A medium fine ground calcium carbonate produced at Huber's Quincy, Illinois plant which is known for its natural uniformity producing consistent purity and brightness. The Q100 particle distribution is used in applications to control mine dust, as a carrier in agricultural products, and oilfield drilling fluids where its low acid insoluble content is useful.

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**TYPICAL PHYSICAL PROPERTIES**

	<u><b>Q100</b></u>
Median Particle Size (Cilas®, µ)	24
Brightness (Hunter reflectance)	83
Oil Absorption (lbs oil / 100lbs, ASTM D281)	12
Moisture (% , ASTM D280)	0.1
Water Demand (mL/100 gms)	36
Loose Bulk Density (lb/ft <sup>3</sup> , ASTM C110)	55
Compacted Bulk Density (lb/ft <sup>3</sup> , ASTM C110)	80
Acid Solubility (% in HCl)	98.5 - 99

**PARTICLE SIZE (SCREEN) ANALYSIS**

Mesh size	<u>%</u>
-325 (45µm)	66

**TYPICAL CHEMICAL ANALYSIS**

	<u>%</u>
Calcium Carbonate	96.5
Magnesium Carbonate	2
Silica and Silicates	1
Other	0.5

**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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