



HUBER ENGINEERED MATERIALS



Hubercarb[®] Q Series Calcium Carbonate Products

QUINCY, IL



The Hubercarb® Q Series

Many Products To Satisfy Many Application Needs

Hubercarb® Q Series products include ultra-fine, fine, medium-fine and granular particle size calcium carbonates. Several of these products have been surface-modified to enhance end-use performance.

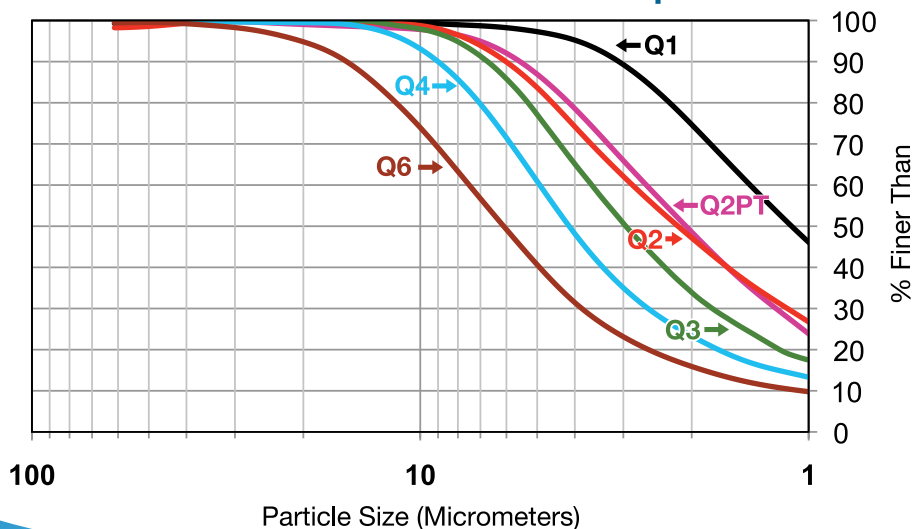
Our Key Ingredients: Consistency and Quality Starts At The Beginning

Huber's calcium carbonate mine in Quincy, Illinois, is known for its natural uniformity. It produces stone of consistent purity and brightness. The excellent uniformity of this deposit assures the product we deliver to you years from now will have the same purity and brightness as the product we deliver today. Our processes are certified to ISO standards and when combined with Six Sigma® tools, you are ensured consistent, high performing products time after time.

Typical Physical Properties — Ultra-Fine and Fine Products

Hubercarb® Q Series	Q1	Q1T	Q2PT	Q2	Q2T	Q3	Q3T	Q4	Q6
Surface Treatment		Treated	Treated		Treated		Treated		
Median Particle Size (µ, SediGraph®)	1.1	1.1	2	2	2	3.2	3.2	4.3	6
Dry Brightness (Hunter Reflectance)	90	90	90	90	90	89	88	88	87
Oil Absorption (lbs oil/100 lbs, ASTM D-281)	21	21	16	18	16	18	15	17	16
Moisture (% , ASTM D-280)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15
Water Demand (ml/100 gms)	95			68		55		54	45
Loose Bulk Density (lbs/ft³, ASTM C-110)	30	32	44	44	41	40	40	40	45
Compacted Bulk Density (lbs/ft³, ASTM C-110)	45	48	62	52	55	60	60	60	65
325 Mesh Residue (max, %)	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01
Hegman Grind (ASTM D-1210)	5.5	5.5	6	6.5	6.5	6	6	6	5

Particle Size Distribution — SediGraph® Method



Rigid PVC Pipe is a key Hubercarb® Q Series application.



CALCIUM CARBONATE

Typical Physical Properties — Medium-Fine and Granular Products

Hubercarb® Q series	Q325	Q200	Q200T	Q100	Q60	Q40-200	Q12-40	Q5-20
Surface Treatment			Treated					
Median Particle Size (μ , LLS-CILAS®)	13	22	22	24	20			
Dry Brightness (Hunter Reflectance)	86	84	84	83	78			
Oil Absorption (lbs oil/100 lbs, ASTM D-281)	14	12	12	12	12			
Moisture (% , ASTM D-280)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Water Demand (ml/100 gms)	40	36		36				
Loose Bulk Density (lbs/ft ³ , ASTM C-110)	50	55	55	55	55	85	90	88
Compacted Bulk Density (lbs/ft ³ , ASTM C-110)	80	80	80	80	95	98	100	98

Particle Size (Screen) Analysis

Mesh Size	Q325	Q200	Q200T	Q100	Q60	Q40-200	Q12-40	Q5-20
-4								100
-6								94
-8							100	48
-12							95	9
-16							72	3
-20						100	56	2
-40				100	100	97	7	
-60		100	100	99.9	99.6	60	3	
-100	100	99.9	99.9	99	96.5	23		
-200	99.9	99	99	79	78	6		
-325	99.5	82	82	66	61			

We look forward to providing you with the highest quality products, technical service support and customer care.

Hubercarb® Q Series Calcium Carbonate Products

Typical Chemical Analysis

Chemical	Percent
Calcium Carbonate	96.5%
Magnesium Carbonate	2.0%
Silicas and Silicates	1.0%
Other	0.5%

Other Typical Properties

Color	White
Alkalinity (as NaOH, ASTM D-1208)	0.4 mg/gm
pH (ASTM D-1208)	9.4 (saturated solution)
Hardness (Handbook of Chemistry and Physics)	3 Mohs, relatively non-abrasive
Solubility (Handbook of Chemistry and Physics)	0.0035 gm/100 ml H ₂ O at 100°C
Particle Shape (Microscope)	Irregular, uniaxial
Specific Gravity (ASTM D-153)	2.7
Refractive Index (Handbook of Chemistry and Physics)	1.6
Weight/Solid Gallon (s.g. x 8.345)	22.6 lbs/solid gallon (0.0443 solid gallons/pound)
Linear Expansion Coefficient (Handbook of Chemistry and Physics)	4.3 x 10 ⁻⁶ /°C

Q Series Products

- Hubercarb® Q1
- Hubercarb® Q1T
- Hubercarb® Q2PT
- Hubercarb® Q2
- Hubercarb® Q2T
- Hubercarb® Q3
- Hubercarb® Q3T
- Hubercarb® Q4
- Hubercarb® Q6
- Hubercarb® Q325
- Hubercarb® Q200
- Hubercarb® Q200T
- Hubercarb® Q100
- Hubercarb® Q60
- Hubercarb® Q40-200
- Hubercarb® Q12-40
- Hubercarb® Q6-20

Plant Location

Huber Carbonates, LLC
3150 Gardner Expressway
Quincy, IL 62305

Applications

- Paints and Coatings
- Rigid PVC Pipe
- Joint Compound
- Caulks and Sealants
- Adhesives
- Rubber
- Vinyl Flooring
- Polyolefin Film
- Traffic Paint
- Cleansers
- Ceramics
- Drilling Fluids
- Asphalt Products
- Pesticides
- Agriculture
- Concrete Products

Other Products

- Hubercarb® G Series Calcium Carbonate
- Hubercarb® M Series Calcium Carbonate
- Hubercarb® W Series Calcium Carbonate

Additional Products Available From

Marble Hill, Georgia
Marble Falls, Texas



HUBER ENGINEERED MATERIALS

For more information or to order samples, contact us:

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GCC/Q Series/NA/RevXII/April2018

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