

# Huber Calcium Carbonates



- High Brightness White Extenders
- Certified to ISO Standards
- Consistent Particle Size
- Unrivaled Technical Service
- Superior Customer Care



SPECIALTY MINERALS



**Huber Specialty Minerals** offers a variety of calcium carbonate products in a range of consistent particle sizes. Four distinct product series are mined from world class deposits and available from three strategic U.S. manufacturing locations: Marble Hill, Georgia; Marble Falls, Texas; and Quincy, Illinois. Our exclusive and primary brands include **Hubercarb®**, **Geotex®** and **Optifil®** calcium carbonates.



LUXURY VINYL TILE (LVT)

**The Hubercarb® G Series** and **Geotex®** calcium carbonate products are mined and processed from a high purity, high brightness marble deposit in Marble Hill and include fine, medium-fine and granular particle sizes. The G Series and Geotex portfolio highlights the high brightness and careful attention to the production process. The results give the brightest calcium carbonate for color sensitive applications like joint compound, luxury vinyl tile (LVT), flooring, paints, coatings, adhesives, caulks and sealants. Three of the G Series fine products have been surface-modified to enhance end-use performance.



TRAFFIC PAINT

**Hubercarb® M Series** calcium carbonate is mined from a uniform deposit of high calcium limestone in Marble Falls. Products include fine and medium-fine sizes. Two M Series fine products have been surface-modified to enhance end-use performance. This includes a proprietary process that ensures the hydrophobic surface treatment is bonded to the calcium carbonate particles.



DRILLING FLUIDS

**Hubercarb® Q Series** products are mined and manufactured in Quincy include the full array Huber has to offer of fine, medium-fine and granular particle size calcium carbonates. Four Q Series products have been surface-modified to enhance end-use performance. From cat litter to concrete to paint to plastics, Hubercarb Q calcium carbonate is available in the particle size you need for your application. Select Hubercarb Q products are produced using an ultra-high purity limestone ore to meet the industry standards for animal feed applications.



PVC PIPING

**Hubercarb® W Series** calcium carbonate including **Optifil®** calcium carbonate has a purity level of 99.3% limestone that is produced in Quincy. Products include fine median particle sizes. The W Series products are ideal for applications that require high-filler loadings, low moisture content and silica content below detectable levels. Two grades have been surface-modified to enhance end-use performance requiring hydrophobic properties. In addition to being low in silica, these products are also low in trace metals like iron. Low iron content reduces undesirable degradation in some polymer systems.

At Huber Specialty Minerals, quality is the key ingredient in all of our products. Our processes are certified to ISO standards and when combined with Six Sigma® tools, consistently high performing products are ensured.

# Huber Calcium Carbonates

## Hubercarb® G Series and Geotex® Marble Calcium Carbonates

### Typical Physical Properties

Produced in Marble Hill, Georgia

Hubercarb® G Series	G2	G2T*	G3	G3T*	G35	G35T*	G6	G8	G325	G260	Geotex® 40-200	Geotex® FXZ	Geotex® TXS	Geotex® 30-50	Geotex® 16-40	Geotex® 10-20
Median Particle Size (μ, SediGraph®)	2	2	3	3	3	3	6	7								
Median Particle Size (μ, LLS-CILAS®)									11	27	184**	150**	565**	415**	777**	1387**
Dry Brightness (Hunter Reflectance)	95	95	95	95	95	95	94	94	93	93						
Oil Absorption (lbs oil/100 lbs, ASTM D-281)	19	17	18	17	19	16	15	15	15	12						
Water Demand (ml/100 gms)	69		57		58		45	41	42	38						
Moisture (% , ASTM D-280)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Loose Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	39	39	47	49	51	52	51	50	52	58	87	89	92	95	95	95
Compacted Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	55	55	60	61	63	63	85	85	79	82	108	110	120	105	100	100
325 Mesh Residue (max, %)	0.005	0.005	0.005	0.005	0.005	0.005	0.05	0.6	0.8	14						
Hegman Grind (ASTM D-1210)	6.5	6.5	6	6	6	6	5	3								

### Typical Chemical Analysis

\*Stearic Acid Surface Treatment \*\*Calculated Value

Chemical	Percent
Calcium Carbonate	96.0%
Magnesium Carbonate	2.5%
Silicas and Silicates	0.10-0.30%
Other	1.1%

## Hubercarb® M Series Calcium Carbonates

### Typical Physical Properties

Produced in Marble Falls, Texas

Hubercarb® M Series	M3PT*	M3	M3T*	M4	M6	M300	M200	M70
Median Particle Size (μ, SediGraph®)	3	3	3	4	5			
Median Particle Size (μ, LLS-CILAS®)						8	15	18
Dry Brightness (Hunter Reflectance)	85	85	85	85	85	84	83	80
Oil Absorption (lbs oil/100 lbs, ASTM D-281)	15	17	15	17	16	13	12	11
Water Demand (ml/100 gms)		50		45	45	44	37	34
Moisture (% , ASTM D-280)	0.2	0.2	0.2	0.2	0.15	0.1	0.1	0.1
Loose Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	42	40	40	40	45	50	60	65
Compacted Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	74	60	60	60	65	65	80	90
325 Mesh Residue (max, %)	0.01	0.01	0.01	0.01	0.01	0.5	13	
Hegman Grind (ASTM D-1210)	6.5	6.5	6.5	5.5	4.5			

### Typical Chemical Analysis

Chemical	Percent
Calcium Carbonate	92.0%
Magnesium Carbonate	1.5%
Silicas and Silicates	3-7%
Other	2.0%

\*Stearic Acid Surface Treatment

# Hubercarb® Q Series Calcium Carbonates

## Typical Physical Properties

Produced in Quincy, Illinois

Hubercarb® Q Series	Q2PT*	Q2	Q2T*	Q3	Q3T*	Q4	Q6	Q325	Q200	Q200T*	Q100	Q60	Q40-200	Q12-40	Q5-20
Median Particle Size (μ, SediGraph®)	2	2	2	3	3	4	6								
Median Particle Size (μ, LLS-CILAS®)								13	20	22	20	18	223**	799**	2410**
Dry Brightness (Hunter Reflectance)	90	90	90	89	88	88	87	86	84	84	83	78			
Oil Absorption (lbs oil/100 lbs, ASTM D-281)	16	18	16	18	15	17	16	14	12	12	12	12			
Water Demand (ml/100 gms)		68		55		54	45	40	36		36				
Moisture (% , ASTM D-280)	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Loose Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	44	44	41	40	40	40	45	50	55	55	55	55	85	90	88
Compacted Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	62	52	55	60	60	60	65	80	80	80	80	95	98	100	98
325 Mesh Residue (max, %)	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.6	13	13					
Hegman Grind (ASTM D-1210)	6	6.5	6.5	6	6	6	5								

## Typical Chemical Analysis

\*Stearic Acid Surface Treatment \*\*Calculated Value

Chemical	Percent
Calcium Carbonate	96.5%
Magnesium Carbonate	2.0%
Silicas and Silicates	0.20-2%
Other	0.5%

# Hubercarb® W Calcium Carbonates

## Typical Physical Properties

Produced in Quincy, Illinois

Hubercarb® W Series	Optifil®	Optifil® T*	W3N	W3NT*	W3	W4
Median Particle Size (μ, SediGraph®)	1.7	1.7	3	3	4	6
Dry Brightness (Hunter Reflectance)	93	92	92	92	92	92
Oil Absorption (lbs oil/100 lbs, ASTM-281)	17	16	15	15	15	13
Moisture (% , ASTM-D280)	0.2	0.2	0.2	0.2	0.1	0.1
Loose Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	50	50	50	50	50	55
Compacted Bulk Density (lbs/ft <sup>3</sup> , ASTM C-110)	70	70	55	55	55	65
325 Mesh Residue (max, %)	0.005	0.005	0.005	0.005	0.005	1.0
Hegman Grind (ASTM D-1210)	6	6.5	6	6	6	2

## Typical Chemical Analysis

Chemical	Amount
Calcium Carbonate	99.3%
Magnesium Carbonate	0.4%
Silicas and Silicates	0-0.05%
Other	0.23%

\*Stearic Acid Surface Treatment



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### Huber Calcium Carbonates Other Typical Properties

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

\*Handbook of Chemistry and Physics



SPECIALTY MINERALS

Leading US Supplier of  
Ground Calcium Carbonates  
(GCC)



#### Quincy, Illinois

The Hubercarb<sup>®</sup> Q, Q-FSMA and W Series

- Fine, Medium Fine and Granular Calcium Carbonates
- Optifil<sup>®</sup> Calcium Carbonates



#### Fairmount, Georgia

- Technical Support and Research Center



#### Marble Hill, Georgia

The Hubercarb<sup>®</sup> G Series

- Fine, Medium Fine and Granular Calcium Carbonates
- Geotex<sup>®</sup> Calcium Carbonates



#### Marble Falls, Texas

The Hubercarb<sup>®</sup> M Series

- Fine and Medium Fine Calcium Carbonates



#### Atlanta, Georgia

- World Headquarters
- Dedicated Customer Care Support



SPECIALTY MINERALS

ADHESIVES, CAULKS & SEALANTS

JOINT COMPOUND

PAINTS & COATINGS

CARPET BACKING

ANIMAL FEED & NUTRITION

WATER TREATMENT

CULTURED MARBLE

ATHLETIC FIELD MARKINGS

SWIMMING POOL AGGREGATE

THERMOSET COMPOSITES

## Sampling of Endless Application Possibilities

- Adhesives, Caulks & Sealants
- Paints & Coatings
- PVC Compounds, Pipe & Siding
- Luxury Vinyl Flooring & Tile
- Animal Feed & Nutrition
- Joint Compound
- Drilling Fluids
- Cleansers & Polishes
- Thermoplastics
- Swimming Pool Aggregate
- Carpet Backing
- Composites
- Traffic Paint
- Wire & Cable
- Polyolefins
- Pultrusion
- Breathable Film
- Silicon Rubber
- Cultured Marble
- Concrete
- Water Treatment
- Rock Dust
- Roofing
- Recycled Content

## We Offer Even More:

### Additional Huber Specialty Minerals Calcium Carbonate Brands and Application Uses

In addition to our comprehensive portfolio of Hubercarb®, Geotex® and Optifil® calcium carbonates for a multitude of potential applications, we are pleased to offer seven additional brands for specialized uses, including:

<b>Marble Elite® Alpha and Marble Elite® Gamma Calcium Carbonates</b> .....	Cast Polymer Solid Surfaces
<b>HuberCrete® Calcium Carbonate</b> .....	Concrete
<b>DuraWhite® Marble Aggregate</b> .....	White Swimming Pool Plaster
<b>MineBrite® Rock Dust</b> .....	Mitigating Coal Dust Explosions
<b>ReCal® Calcium Carbonate</b> .....	Pre-Consumer Recycled Content
<b>HuberPure® Calcium Carbonate</b> .....	Water Supply Treatment



SPECIALTY MINERALS

Huber Specialty Minerals looks forward to working with you. In addition to our array of high performing calcium brands and products, we offer superior technical service and unparalleled customer care. For more information or to order samples of our calcium carbonate grades, contact us:

**Phone:** 866-JMHUBER (866-564-8237)  
**Click:** [www.calciumcarbonate.com](http://www.calciumcarbonate.com)  
**Email:** [hubermaterials@huber.com](mailto:hubermaterials@huber.com)



ISO 9001:2015 Certified  
Quality Management System