



HUBER ENGINEERED MATERIALS



Hubercarb[®] W Series Calcium Carbonate Products

QUINCY, IL



The Hubercarb® W Series

Huber's Highest Purity Calcium Carbonate

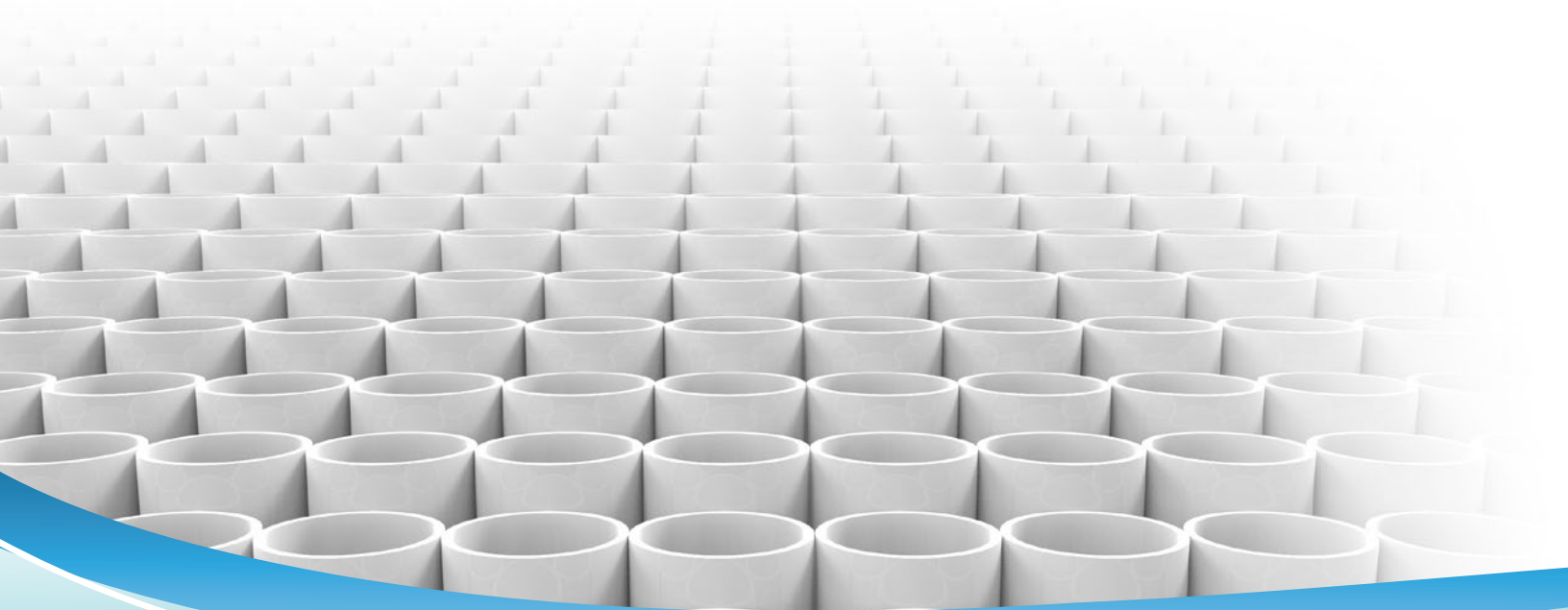
Hubercarb® W Series Calcium Carbonate has a purity level of 99.3%, which is mined from a world-class limestone deposit and processed in Quincy, Illinois. Products include ultra-fine and fine median particle sizes. Two of the W Series grades have been surface-modified to enhance end-use performance. The W Series products are ideal for applications that require high-filler loadings, low moisture content and silica content below detectable levels. The W Series is also low in trace metals like iron, which can promote undesirable degradation in some polymer systems. The unique particle shape and particle size distribution lend the W Series products to low viscosity at high-filler loadings, improved surface-finish in molded parts, reduced part shrinkage and part breakage, while saving on expensive equipment repair costs.

Our Key Ingredient: Quality

At Huber Carbonates, LLC, quality is the key ingredient in all of our products. Our processes are certified to ISO standards and when combined with Six Sigma® tools, you are ensured consistent, high-performance products time after time.

Typical Physical Properties – Ultra-Fine and Fine Products

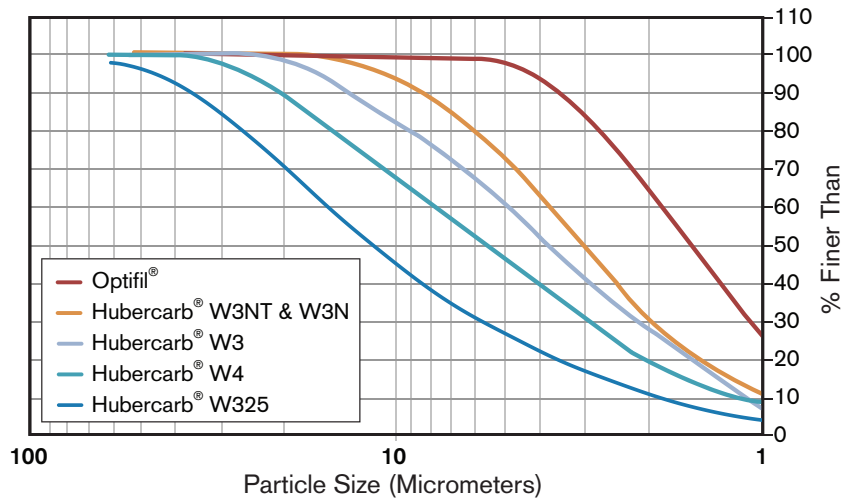
Hubercarb® W Series	Optifil®	Optifil® T	W3N	W3NT	W3	W4	W325
Surface Treatment		Treated		Treated			
Median Particle Size (μ, SediGraph®)	1.7	1.7	3	3	4	5.9	13
Dry Brightness (Hunter Reflectance)	93	92	92	92	92	92	92
Oil Absorption (lbs oil/100 lbs, ASTM D-281)	17	16	15	15	15	13	
Moisture (% , ASTM D-280)	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Loose Bulk Density (lbs/ft³, ASTM C-110)	50	50	50	50	50	55	50
Compacted Bulk Density (lbs/ft³, ASTM C-110)	70	70	55	55	55	65	75
325 Mesh Residue (max, %)	0.005	0.005	0.005	0.005	0.005	1.0	5
Hegman Grind (ASTM D-1210)	6.5	6.5	6	6	6	2	





CALCIUM CARBONATE

Particle Size Distribution — SediGraph® Method

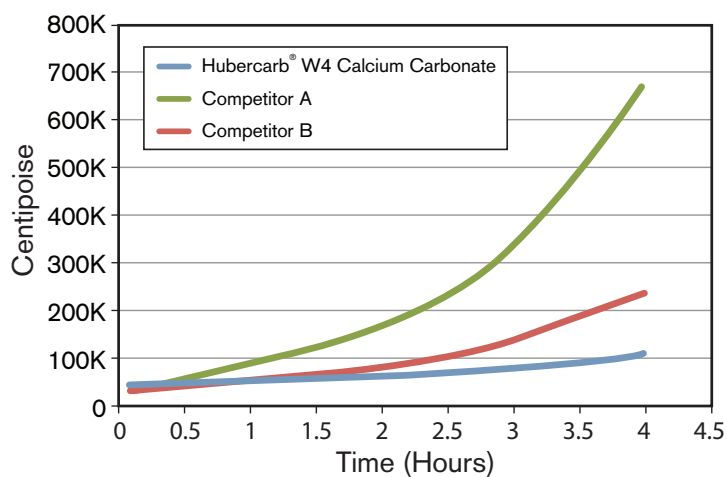


Hubercarb® W Series Advantage for Liquid Polyester Applications: Low Chloride Content, Broad Particle Size Distribution

A key advantage of the Hubercarb W Series is a low leachable chlorides content. Chlorides are known to absorb water, which undesirably accelerates the cure. A broad particle size improves particle packing and lowers viscosity.

For thermally-sensitive applications, the iron in the Hubercarb® W Series Calcium Carbonate grades is 10 times lower than domestically-sourced ore for superior weatherability and thermal stability.

Thickened Viscosity – First Four Hours



Hubercarb® W Series Calcium Carbonate Products

Typical Chemical Analysis

Chemical	Amount
Calcium Carbonate	99.3%
Magnesium Carbonate	0.4%
Silicas and Silicates	0.05%
Iron	40 ppm
Leachable Chlorides	< 5 ppm
Other	0.23%

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)	Slightly 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

W Series Products

- Optifil®
- Optifil® T
- Hubercarb® W3N
- Hubercarb® W3NT
- Hubercarb® W3
- Hubercarb® W4
- Hubercarb® W325

Plant Location

Huber Carbonates, LLC
3150 Gardner Expressway
Quincy, IL 62305

Applications

- Adhesives, Caulks and Sealants
- BOPP
- Breathable Films
- Composites – Non SMC / BMC
- Compression Molding SMC / BMC
- Elastomeric Roof Coatings
- Extrusion Coatings
- Fiberglass Reinforced Polyester
- Inks
- Paints and Coatings
- Paper
- Pipe and Conduit
- Polyolefins
- Pultrusion
- PVC Compounds
- PVC Siding
- Rubber and Plastics
- Silicone Rubber
- Thermally Sensitive Materials
- Thermoplastics
- Weatherable Items
- Wire and Cable

Other Products

- Hubercarb® G Series Calcium Carbonate
- Hubercarb® M Series Calcium Carbonate
- Hubercarb® Q 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:

1-866-JMHUBER (1-866-564-8237)

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ISO 9001:2015 Certified
Quality Management System



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QUINCY, IL