

FEATURES & BENEFITS

HIFILL® calcium carbonate fillers and reinforcers are produced from a uniquely occurring, high brightness calcite feedstock. Available in a range of particle distributions and packing configurations HIFILL offers versatile filling options and excellent whiteness and opacity in adhesives, sealants and caulks, and cost effective performance in contractor grade trade paints and stuccos. With low oil absorption values, HIFILL can help maximize loading levels in either water or solvent based systems with only minimal impact upon viscosity. The brightness, oil absorption and hardness properties of HIFILL also produce reinforcing and performance benefits in filled PVC plastic and rubber applications.

All HIFILL grades are processed with rigid adherence to Covia QIPSM statistical and quality assurance programs. The result is chemical purity and consistently uniform particle size distributions for predictable results and reliable service.

PARTICAL SIZE ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

	Mesh Size		HIFILL® Grades		
	ASTM	MICRONS	15	17	18
Typical mean % retained on individual sieves	100	150	0.5	0.2	—
	200	75	12.6	0.4	—
	325	53	26.0	18.0	0.5
	400	38	31.9	23.3	3.0
Subsieve Analysis % Passing		<20	58.7	64.7	61.0
		<10	46.4	50.0	46.0
		<5	33.9	34.6	33.9
		<2	18.8	18.0	20.0
		<1	10.8	10.6	11.3

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent A Specification.

HIFILL® Air Floated Clay Filler		15	17	18
Hegman Value	ASTM D1210-79	2.5	3.5	4.5
Median Particle Size (μ)	SEDIGRAPH	12.5	10.5	9.5
Specific Surface Area	Fisher SubSieve (m ² /gm)	1.4	1.5	1.6
Brightness (GEB)	CIE Ganz	69.0	67.0	67.0
Oil Absorption (g/100g)	ASTM D-281	20.0	19.0	19.0
Residue (%maximum)	+325 Mesh Sieve	35.0	15.0	0.5
Bulk Density (lb/ft ³)	ASTM C-29	75.0	63.0	60.0
Refractive Index			1.6	
Specific Gravity	ASTM C-128		2.7	
Hardness (Mohs)	Mohs Scale		3.0	
pH (in solution)	AFS 113-87-S		9.0	
% Moisture	ASTM C-566		<0.2	

CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

Typical Mean Percent by Weight	
Calcium Carbonate (CaCO ₃)	92.5
Magnesium Carbonate (MgCO ₃)	2.5
Silicon Dioxide (SiO ₂)	4.0
Aluminum Oxide (Al ₂ O ₃)	0.4
Iron Oxide (Fe ₂ O ₃)	0.1

SHIPPING/ORDERING INFORMATION

- Shipping Point: Huntingburg, IN
- Originating Carrier: Norfolk Southern
- Availability: Bulk, IBC, 50 lb Bag
Truck

CUSTOMER SERVICE

US & Canada: 1-800-243-9004

Fax: 1-800-243-9005

Worldwide: 1-203-442-2500

Fax: 1-203-972-1378

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GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

HEALTH HAZARD WARNING: Long term exposure can cause pneumoconiosis. This material contains crystalline silica which can cause pneumoconiosis. Pneumoconiosis is a respiratory disease, which can result in delayed, disabling and sometimes fatal lung injury. IARC and NTP have determined that crystalline silica can cause lung cancer in humans. Risk of injury is dependent on the duration and level of exposure. Avoid creating dust when handling, using or storing. Use only with adequate ventilation to keep exposure below recommended exposure limits. Follow OSHA or other relevant safety and health standards for "Particulates not otherwise classified" (PNOC) and for the form of crystalline silica called Quartz. Current safety data sheet, containing safety information, is available and should be consulted before usage.

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Calcium/Silica Containing

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