



Shengzhou Huali Diatomite Products Co., Ltd

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Diatomite Functional Fillers

Shengzhou Huali CD Series Diatomite Functional Fillers provide product and process improvements in chemical, food, agricultural, paper, rubber, plastic, and other industrial applications. CD Series product acts as an absorbent and anti-caking agent, or a diluent; it can serve single or multiple functions in a specific process.

Shengzhou Huali Diatomite Functional Fillers are available in natural, calcined, and flux-calcined grades. These processes alter the physical properties of the grades to provide specific application advantages. The inherent properties of the diatom, the basic unit that makes Huali diatomite functional fillers so beneficial, are carefully preserved during processing.

These properties include an exceptionally high silica content, inertness to most chemical reactions, extremely irregular shapes, and resistance to very high temperatures and PH extremes. Other functional properties of Huali Diatomite are shown below:

Physical Properties:

High porosity and absorption. Approximately 90% of the volume of our diatomite consists of tiny, inter-connected pores or voids. This high porosity enables Huali Diatomite Functional fillers to absorb liquids up to 2.5 times their own weight.

Unique Particle Structure. Diatomite particles are characterized by their irregular shapes and pore structures. One pound (454 grams) of Huali diatomite has a surface area of over 97,000 sq. ft. (over 9,000 m²), which is several times greater than any other mineral with the same particle size.

High Bulk per Unit Weight. Loose diatoms in a mass do not readily pack together and provide high-bulking values without adding significant weight. As a result, the typical loose weight of Huali diatomite is less than 10 lbs. per cu. ft. (160 g/l), significantly less dense than most competitive mineral additives.

As the properties of Huali diatomite functional filler, our products are utilized in the following areas:

Agricultural Chemicals

Food Industry

Toxic Waste and Other Hazardous Materials

Rubber/Plastic Goods

Food Processing

Agriculture Uses

Cleansers, Detergents and Cosmetics

Insulation

Paper and Paperboard Products

Polishes and Cleaners

Paint and Coating

Other Applications

CD Series Mineral Fillers— Chemical Properties

Grades	Structure	Chemical Analysis, % by Weight							
		Ignition Loss	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	Na ₂ O + K ₂ O
CD010	Natural	7	68.2	16.5	4.6	0.6	0.4	0.5	2.1
CD011		8	67.6	15.8	4.8	0.6	0.4	0.5	2.1
CD020		6	88.8	2.5	1.1	0.2	0.3	0.5	0.5
CD021		6	88.8	2.5	1.1	0.2	0.3	0.5	0.5
CD120		5	88.1	3.2	1.3	0.2	0.5	0.5	1.2
CD122		5	88.1	3.2	1.3	0.2	0.5	0.5	1.2
CD040	Calcined	0.9	90.2	3.5	1.3	0.2	0.5	0.5	1.2
CD041		0.9	90.2	3.5	1.3	0.2	0.5	0.5	1.2
CD050	Flux	0.5	89.6	3.8	1.3	0.2	0.5	0.5	2.5
CD051	Calcined	0.5	89.6	3.8	1.3	0.2	0.5	0.5	2.5

Physical Properties of CD Series Functional Mineral Additives

FeiFei ®							
Grades	Visual Color	Appearance	Density g/ml	Screen Analysis %		Absorption % by wt.	
				150 Mesh	325 Mesh	Water	Oil
CD010	Lark	Powder	0.32	0.1	1.5	150	130
CD011	Caesious	Powder	0.28	0.1	1.5	160	135
CD020	White	Fine powder	0.09	<0.1	2.0	190	175
CD021	White	Fine powder	0.12	0.5	8	220	210
CD120	gray	Fine powder	0.15	<0.1	2.0	185	170
CD122	Gray	Powder	0.17	0.5	8	220	210
CD040	Pink	Fine powder	0.13	0.0	0.2	185	170
CD041	Pink	Fine powder	0.15	0.0	1.0	190	175
CD050	White	Fine powder	0.15	0.0	0.3	150	120
CD051	White	Fine powder	0.17	0.0	2.0	180	160
FeiFei ®							
Grades	SPG	%H2O as Shipped	Refractive Index	Median Particle Size	Surface Area M2/Gm	PH	
CD010	2.2	3-10	1.40	7	20-30	7.0	
CD011	2.2	3-10	1.40	9	20-30	7.0	
CD020	1.98	6.0	1.40	4	20-30	7.0	
CD021	1.98	6.0	1.40	10	20-30	7.0	
CD120	2.10	5.0	1.40	4	20-30	7.0	
CD122	2.10	5.0	1.40	14	20-30	7.0	
CD040	2.25	0.5	1.45	3.5	1-4	7.0	
CD041	2.25	0.5	1.45	4.5	1-3.5	7.0	
CD050	2.30	0.5	1.48	5	1-3.5	10	
CD051	2.30	0.5	1.48	9	1-3.5	10	

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