CCEWOOL Thermomax Inc.
salesusa@ccewool.com
www.ccewool.com

CCEWOOL® Ceramic Bulk Fiber

Temperature Grades: 1100℃ (2012℉), 1260℃ (2300℉), 1400℃ (2550℉), 1430℃ (2600)

CCEWOOL® Ceramic Bulk Fiber is produced by melting high-purity raw materials such as clay grog, aluminum oxide powder, silica powder, and zircon sand in an industrial electric furnace at high temperatures to form a fluid. Then, it is transformed into fiber-like structures through processes like compressed air blowing or spinning with a centrifuge, and collected to create ceramic fiber cotton. CCEWOOL® Ceramic Bulk Fiber can resist most types of chemical corrosion. They are lightweight, durable, have low heat storage capacity, effectively save energy, and exhibit excellent resistance to thermal shocks, making them suitable for use in harsh environments. CCEWOOL® Ceramic Bulk Fiber serves as a raw material for the production of refractory ceramic fiber blankets, boards, papers, and can also be directly used in various high-temperature applications such as high-temperature insulation and packaging materials.

Characteristics:

Low heat capacity and low thermal conductivity;
Excellent chemical stability;
Excellent thermal stability, resistance to pulverization at high temperature;
With no binders or corrosive substances;
Excellent thermal shock resistance;
Lightweight.

Applications:

Raw material for fiber blanket, board, textile and unshaped vacuum formed products;
Fillings for wall lining gap in high temperature furnace, heating device;
Fiber spraying;
Raw material for coatings;
Insulation fillings for corner and complex space.

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CCEWOOL® Ceramic Bulk Fiber					
Description	1100	1260S	1260 HPS	1400	1430 HZ
Fiber Diameter(μm)	3.0-5.0				

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Chemical Composition(%)					
Al2O3	≥43	≥44	≥44	≥52	≥35
SiO2	≥52	≥52	≥55	≥47	≥49
ZrO2	-	-	-	-	≥15
Color	White	White	White	White	White
Shot Content(%)	≤15	≤15	≤15	≤15	≤12
Packing	Braided Bag/ Carton				

CCEWOOL® Ceramic Chopped Fiber

Temperature Grades: 1260℃(2300℉)
CCEWOOL® Ceramic Chopped Fiber is made by crushing CCEWOOL refractory ceramic fiber bulk through professional automatic crusher. Chopped fiber bulk is raw material for producing refractory ceramic fiber board and refractory ceramic fiber paper. With automated operation system, we can produce more uniform chopped fiber and the particle size of chopped fiber can be more accurate. We can make chopped refractory ceramic fiber of different particle sizes according to customers' requirements. CCEWOOL® Ceramic Chopped Fiber is widely used as thermal insulation materials in industrial kilns, boilers, pipes, chimneys, etc, and its thermal insulation effect is remarkable.

Characteristics:
Low heat capacity and low thermal conductivity;
Excellent chemical stability;
Excellent thermal stability, resistance to pulverization at high temperature;
With no binders or corrosive substances;
Excellent sound absorption.

Applications:
Raw material for fiber blanket, board, textile and unshaped vacuum formed products;
Expansion joints;
Furnace base seals;
Tube seals;
Burner tile packing;

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Chimney insulation.

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CCEWOOL® Ceramic Chopped Fiber	
Classification Temperature (℃)	1260
Fiber Diameter(μm)	2-4
Chemical Composition(%)	
Al2O3	≥43
SiO2	≥54
ZrO2	-
Color	White
Shot Content(%)	≤12
Packing	Braided Bag/ Vacuumed plastic bag+pallet

CCEWOOL® Ceramic Fiber bulk specialized for vacuum formed shapes

Temperature Grades: 1260°C (2300°F), 1430°C (2600°F)
CCEWOOL® Ceramic Fiber bulk specialized for vacuum formed shapes is produced with high-purity clay clinker, alumina powder, silica powder, and zircon sand and other premium raw materials, through innovative production process. The raw materials are melted at high temperatures in an industrial electric furnace, then processed into fiber through compressed air blowing technology. Then the fiber is collected by a wool collector, and forms high-quality refractory ceramic fiber blown bulk.
This specialized fiber bulk has a fiber diameter of 2-4μm. It's unlubricated, making it the best product for manufacturing vacuum formed shapes. We also produce bio soluble fiber(AES fiber) for vacuum formed shape, to meet different application requirements.
CCEWOOL® Ceramic Fiber bulk specialized for vacuum formed shapes is packed with vacuumed plastic bags and then packed securely on pallets. This packaging method not only protects product from damage but also greatly saves space.
Reach Registration Certificate will be provided as requested for each shipment.

Characteristics
Unlubricated;
Low heat capacity and low thermal conductivity;

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Excellent chemical stability;
Superior thermal stability, resistant to powdering at high temperatures.

Application:
The best product for making vacuumed formed shapes.

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CCEWOOL® Ceramic Fiber bulk specialized for vacuum formed shapes			
Classification Temperature		1260℃ (2300℉)	1430℃(2600℉)
Color		White	White
Fiber Diameter (μm)		2-4	2-4
Shot Content (%)		≤15	≤12
Chemical Composition (%)	Al_2O_3	≥43	≥35
	SiO_2	≥54	≥49
	ZrO_2	-	≥15
	$Al_2O_3+SiO_2+ZrO_2$	-	≥99
Packing		Vacuumed plastic bag+pallet.	

CCEWOOL® Ceramic Fiber Bulk for Textile

Temperature degree: 1260℃(2300℉)
CCEWOOL® Ceramic Fiber Bulk for Textile is made from standard refractory ceramic fiber bulk through a further shot-removal process to deliver uniform diameter and high spinnability of fiber cotton, which is one of ideal raw material for the production of textiles.

Characteristics:
Low heat capacity and low thermal conductivity;
Excellent chemical stability;
Excellent thermal stability, resistance to pulverization at high temperature;
With no binders or corrosive substances;
Excellent sound absorption.

Application:
Raw material of refractory ceramic fiber textile(yarn, cloth, tape, rope)

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CCEWOOL® Ceramic Fiber Bulk for Textile	
Classification Temperature (℃)	1260
Fiber Diameter(μm)	3-5
Chemical Composition(%)	
Al2O3	≥43
SiO2	≥54
ZrO2	-
Color	White
Shot Content(%)	≤15
Packing	Braided Bag/ Carton

CCEWOOL® Ceramic Fiber Friction Bulk

Temperature degree: 1260℃(2300℉)
CCEWOOL® Ceramic Fiber Friction Bulk is a combination of refractory ceramic fibers and binding agents, which are designed to improve its characteristics. This type of friction material is manufactured by blending refractory ceramic fibers with organic and inorganic binders. The production process involves mixing, molding, forming, curing, and sintering.
The final result is a material that is capable of withstanding extremely high temperatures and pressure without losing its functionality. It is used extensively in brake systems, clutches, and other friction applications due to its excellent frictional performance, wear resistance, and low dust emissions.

Characteristics:

1. High heat resistance: Refractory ceramic fiber friction materials can withstand temperatures up to 1200℃, making it an ideal material for use in high-temperature applications.
2. Low wear rates: This material has excellent wear resistance, which makes it highly suitable for use in applications that require long-lasting and durable materials.
3. Low noise: Refractory ceramic fiber friction material is virtually silent during operation, making it an ideal choice for reducing noise and vibration levels.
4. Low dust emissions: These materials are designed to generate low levels of dust during operation, reducing exposure to harmful particles.
5. High chemical resistance: Refractory ceramic fiber friction material is highly resistant to chemical corrosion, ensuring that it can work effectively in harsh environments.

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Application:

1. Automotive brakes: Refractory ceramic fiber friction material is widely used in automotive brake systems due to its excellent performance and durability. It offers smoother operation, lower noise levels, and reduced wear and tear compared to other friction materials.
2. Industrial clutches: These materials are highly preferred in industrial clutch applications due to their high resistance to heat and wear. They offer excellent frictional performance, reducing slippage during high-demand operations.
3. Construction machinery: Refractory ceramic fiber friction material is widely used in construction machinery such as cranes and excavators because they can withstand high loads and stresses.

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CCEWOOL® Ceramic Fiber Friction Bulk	
Classification Temperature (℃)	1260
Operation Temp(℃)	≥1000
Fiber Diameter(μm)	2-4
Chemical Composition(%)	
Al2O3	≥45
SiO2+Al2O3	≥97
ZrO2	-
Color	white or grayish-white
Shot Content(%)	≤3
Packing	Braided Bag