CCEWOOL® Ceramic Bulk Fiber

Classification Temperature: 1100°C (2012°F), 1260°C (2300°F), 1400°C (2550°F), 1430°C (2600°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Bulk Fiber is manufactured from high-purity alumina and silica. After being fully melted in a high-temperature electric furnace, the material is fiberized by high-pressure blowing or spinning processes into stable and uniform refractory fibers. The product is lightweight, with low thermal conductivity and low heat storage, and offers excellent thermal shock resistance, helping reduce heat loss in high-temperature equipment. It also provides excellent chemical stability and can resist most corrosive media except hydrofluoric acid, phosphoric acid, and strong alkalis.

CCEWOOL® Ceramic Bulk Fiber is a fully inorganic fiber material that does not carbonize, smoke, or emit fumes during heating. It is suitable for insulation and filling applications in complex spaces, components, and formed structures in both commercial and industrial fields.

With its stable fiber structure and excellent processing adaptability, CCEWOOL® Ceramic Bulk Fiber can be used not only directly for high-temperature insulation filling, but also as a high-quality raw material for Fabrication processing. It can be further processed into monolithic spray materials, vacuum formed components, custom-shaped parts, and other monolithic high-temperature insulation products. This enables it to better meet the requirements of industrial furnace linings, equipment sealing, and complex insulation systems for post-processing performance, forming consistency, and system integration.

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

Characteristics:

Low thermal conductivity;
Low heat storage;
Low thermal shrinkage;
Excellent thermal shock resistance;
Excellent chemical corrosion resistance;
Completely inorganic and asbestos-free;
Lightweight and flexible, with good resilience;
High strength and excellent tensile performance;
Easy to process and install;
Excellent sound absorption performance.

Applications:

Expansion joints and movement joints;
Pipeline seals and high-temperature sealing structures;
Lightweight kiln cars;
Combustion chambers of commercial and domestic boilers;
Furnace insulation filling around observation tubes, ports, expansion joints, and masonry cracks;
Raw material for vacuum formed shaped products;
Raw material for ceramic fiber board, paper, and other fiber products;
Reinforcing material and filler for plastics, resins, and coatings;
Filler for sealants, cements, and refractory materials;
High-temperature filtration media.

TDS

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

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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 Grade: 1260°C (2300°F)
Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Chopped Fiber is produced from high-purity ceramic fiber bulk through a fully automated precision crushing and cutting process. The upgraded production system enables uniform cutting and stable fiber length control, while also allowing engineered adjustment of fiber length and cutting method according to different process requirements, better meeting manufacturing applications with high demands for raw material consistency.

With its stable fiber structure and good processing adaptability, CCEWOOL® Ceramic Chopped Fiber is not only suitable for the production of ceramic fiber board, ceramic fiber paper, and related products, but is also an ideal base material for Fabrication processing. It can be further used in the manufacture of monolithic

spray materials, vacuum formed components, custom-shaped parts, and other monolithic high-temperature insulation products.

At the same time, this product can also be widely used as loose-fill insulation in industrial kilns, boilers, pipelines, chimneys, and other high-temperature equipment, providing stable thermal insulation performance.

According to different production process requirements, CCEWOOL® Ceramic Chopped Fiber is available in multiple grades, including:
Milled Fiber
Fine Chopped Fiber
Medium Chopped Fiber
Coarse Chopped Fiber

Characteristics:
Controllable fiber length;
Low thermal conductivity;
Low heat storage;
Excellent thermal shock resistance;
High resilience;
Low thermal shrinkage;
High-purity fiber with strong chemical corrosion resistance;
Completely inorganic and asbestos-free;
Lightweight;
High installation efficiency;
Excellent sound absorption performance.

Applications:
Expansion joints and movement joint filling;
Furnace bottom sealing, pipeline sealing, and burner tile filling;
Loose-fill insulation and sealing for high-temperature applications;
Insulation for industrial kilns and boiler combustion chambers;
Combustion chambers of commercial and domestic boilers;

Vacuum formed and moldable shaped products;

Raw material for ceramic fiber board, paper, and related products;

Fiber raw material for wet process applications;

Chimney insulation;

Pipeline sealing.

TDS

CCEWOOL® Ceramic Chopped Fiber	
Classification Temperature (°C)	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

Temperature Grade	Fiber Type	Fibre Coating	Fiber Diameter	Description
2300°F (1260°C)	Blown	None	2-4μm	Milled Fiber
2300°F (1260°C)	Blown	None	2-4μm	Fine Chopped Fiber
2300°F (1260°C)	Blown	None	2-4μm	Medium Chopped Fiber
2300°F (1260°C)	Blown	None	2-4μm	Coarse Chopped Fiber
2550°F (1400°C)	Blown	None	2-4μm	Chopped Fiber
2300°F (1260°C)	Spun	None	3-5μm	Chopped Fiber
2600°F (1430°C)	Spun	None	3-5μm	Chopped Fiber

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CCEWOOL® Ceramic Bulk Fiber for Textile

Classification Temperature: 1260°C (2300°F)
Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Bulk Fiber for Textile is produced using our self-developed spinning process, which enables the fibers to maintain a longer length during fiberization. It is then further refined through a fine shot-removal process, effectively reducing shot content and making the fiber morphology more uniform and cleaner.

Thanks to its longer fiber length and stable fiber structure, CCEWOOL® Ceramic Bulk Fiber for Textile offers superior spinnability. During spinning, the fibers are easier to form into yarn, allowing stable production of various ceramic fiber yarns, fabrics, and related textile products.

At the same time, relying on its stable fiber quality and good processing adaptability, this product is also more suitable as a base material for Fabrication processing. It can be further used in the manufacture of high-temperature tapes, ropes, sleeves, cloth, and other flexible high-temperature insulation and sealing products, better meeting the requirements of downstream processing for fiber length, consistency, and spinnability.

Characteristics:

Excellent spinnability;
Low thermal conductivity;
Low heat storage;
Excellent thermal stability;
Low thermal shrinkage;
Excellent thermal shock resistance;
Excellent corrosion resistance;

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Completely inorganic.

Application:

Raw material for ceramic fiber textiles (yarn, cloth, tape, and rope)

TDS

CCEWOOL® Ceramic Bulk Fiber for Textile	
Classification Temperature (°C)	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

Classification Temperature: 1260°C (2300°F)
Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Fiber Friction Bulk is made from high-performance ceramic fiber combined with organic and inorganic binders, and processed through mixing, compression molding, curing, and sintering. The product maintains stable structure and performance under high-temperature and high-pressure friction conditions.

With its stable friction behavior, good wear resistance, and extremely low shot content, CCEWOOL® Ceramic Fiber Friction Bulk is widely used in braking systems, clutches, and other heavy-duty friction components, making it suitable for friction applications that require high heat resistance and reliability.

Characteristics:

High heat resistance;

Low wear rate;

Low noise;

Low dust emission;

High chemical resistance.

Application:

ACCEWOOL® Ceramic Fiber Friction Bulk is suitable for industrial applications requiring high friction stability, heat resistance, and operational reliability, and performs stably under high-temperature, high-load, and continuous-friction conditions.

Automotive braking systems

Used in brake pads, brake linings, and related components, where it maintains stable friction performance under repeated braking and elevated temperatures. The product provides smooth operation, lower noise, and controllable wear, helping improve the durability of the braking system.

Industrial clutch systems

Suitable for heavy-duty clutch applications, where it maintains a stable coefficient of friction under high torque and continuous operating conditions, reducing the risk of slipping and improving transmission reliability.

Construction machinery equipment

In friction components of cranes, excavators, and other construction machinery, it can withstand high loads and high stress conditions, helping extend service life and reduce maintenance frequency.

TDS

CCEWOOL® Ceramic Friction Fiber

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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

CCEWOOL® Ceramic Fiber Bulk for Vacuum Formed Shapes

Classification Temperature: 1260°C (2300°F), 1430°C (2600°F)
Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Fiber Bulk for Vacuum Formed Shapes is manufactured using an advanced production process. Selected high-purity raw materials are fully melted in an industrial electric furnace to form a homogeneous melt, which is then fiberized by a compressed-air blowing process. During this process, the melt is rapidly attenuated and solidified into fine, elongated fibers, and then collected through a fiber collection system to produce high-quality blown ceramic fiber bulk.

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The fiber diameter of this product is as fine as 2–4 μm, with uniform fiber distribution. No lubricating oil is added during production, resulting in high purity and excellent forming suitability. It is especially suitable for the manufacture of various ceramic fiber vacuum formed shapes.

At the same time, thanks to its stable fiber structure and excellent consistency, CCEWOOL® Ceramic Fiber Bulk for Vacuum Formed Shapes is also an ideal base material for Fabrication processing. It can be used in the production of vacuum formed components, custom-shaped parts, and other monolithic high-temperature insulation components, better meeting the raw material requirements of complex structural design and precision post-processing.

Characteristics

Lubricant-free;
Low thermal shrinkage;
High forming strength;
Low heat storage;
Low thermal conductivity;
Excellent chemical stability;
Outstanding high-temperature stability.

Application:

Ideal raw material for manufacturing ceramic fiber vacuum formed shapes.

TDS

CCEWOOL® ceramic fiber bulk specialized for vacuumed formed shapes			
Classification Temperature		1260°C (2300°F)	1430°C (2600°F)
Color		White	White
Fiber Diameter (μm)		2 -4	2 -4
Shot Content (%)		≤15	≤12
Chemical Composition (%)	Al2O3	≥43	≥35
	SiO2	≥54	≥49

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	ZrO2	-	≥15
	Al2O3+SiO2+ZrO2	-	≥99
Packing		Vacuumed plastic bag+pallet.	