

CCEWOOL® Ceramic Fiber Paper



Classification Temperature: 1260°C (2300°F),

1400°C (2550°F), 1430°C (2600°F)

Chemical Composition: Alumina, Silica,
(Zirconia)

CCEWOOL® Ceramic Fiber Paper, also known as aluminosilicate fiber paper, is a flexible high-temperature insulation material made from high-purity ceramic fiber with a small amount of organic binder. It is produced through a nine-stage fine shot-removal process, resulting in fine fibers, low impurity content, and a uniform,

stable structure. The product is suitable for applications requiring reliable thermal insulation, cleanliness, and good processing performance.

CCEWOOL® Ceramic Fiber Paper provides stable thermal insulation and also offers sealing, electrical insulation, sound absorption, and filtration functions. Its good resistance to molten material penetration makes it suitable for casting gaskets and release applications in the glass, construction, and related industries, helping reduce penetration and adhesion of molten materials.

The product is available in 1260°C, 1400°C, and 1430°C grades, with thicknesses from 0.5 to 12 mm. It offers good flexibility and stable mechanical integrity and is easy to cut, die-cut, laminate, and combine into multilayer structures. Its material quality also makes it well suited for Fabrication processing into gaskets, seals, insulation pads, and other functional high-temperature components.

CCEWOOL® can also provide Fabrication customization according to customer drawings and application requirements, including different sizes, thicknesses, and shapes for high-temperature equipment, sealing structures, and integrated insulation systems.

Characteristics:

High-temperature stability;

Low thermal conductivity;

Low heat storage;

Lightweight;
High flexibility and resilience;
Excellent thermal shock resistance;
Low shot content;
Excellent chemical stability;
Good electrical insulation;
Excellent corrosion resistance;
Easy to wrap, form, and cut;
Easy to process.

Applications:

Thermal insulation and separation in casting applications;
Automotive heat shields;
EV battery separators;
Industrial and domestic ovens;
Stove insulation and sealing;
Electric heaters;
Industrial boilers;
Thermal and electrical insulation for small appliances;
Aerospace thermal insulation and protection;
Electric heaters and wood-burning stoves;
Welding and brazing protection;
Muffler insulation and heat shields;
Investment casting mold wrapping;
High-temperature gaskets;
High-temperature furnace roof linings;
Kiln car deck coverings;
Electrical heat seals.

TDS

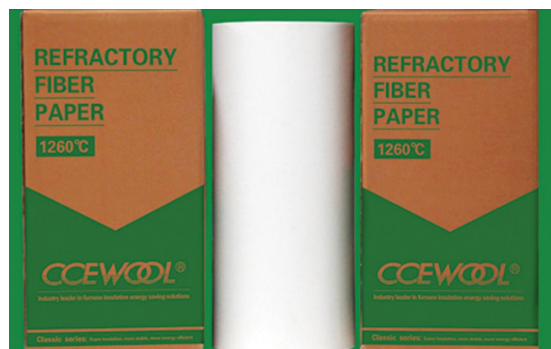
CCEWOOL® Ceramic Fiber Paper			
Item	1260S	1400	1430HZ

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.ccceramicfiber.com
www.ccewool.com

Operation Temperature	1050°C(1922°F)	1200°C(2192°F)	1350°C(2462°F)
Density (kg/m3)	180-200		
Tensile Strength (PSI)	58	94	136
Linear Shrinkage (%)			
1000C,24hrs	2	-	-
1100C,24hrs	-	2	-
1200C,24hrs	-	-	2
Lose on ignition (%)	9	9	9
Chemical Composition (%)			
Al2O3	42-47	52-55	39-40
Al2O3+SiO2	97	99	-
ZrO2	-	-	15-17
Fe2O3	1	0.2	0.2
Na2O+K2O	0.5	0.2	0.2
Specification (MM)	60000×610×1 (200'×24"×1/24") 30000×610×2 (100'×24"×1/12")		
	20000×610×3 (66'×24"×1/8") 15000×610×4 (50'×24"×1/6")		
	12000×610×5 (40'×24"×1/5") 10000×610×6 (33'×24"×1/4")		
	Min Width: 5cm (2")		
Package	Inner Plastic Bag +Outer Carton		

CCEWOOL® Ceramic Fiber Retardant Paper



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

Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Ceramic Fiber Retardant Paper is a high-temperature insulation material with enhanced fire-retardant performance based on conventional ceramic fiber paper. By incorporating a controlled proportion of

flame-retardant components into the material system, the paper is less likely to ignite when directly exposed to flame, improving safety in applications involving open-flame conditions.

While retaining the lightweight, flexible, low-thermal-conductivity, and thermal insulation properties of ceramic fiber paper, CCEWOOL® Ceramic Fiber Retardant Paper provides enhanced fire protection, making it more suitable for high-temperature insulation and protective applications requiring improved flame resistance.

The product offers good processing adaptability and can be cut, punched, die-cut, and machined into custom shapes for gaskets, insulation pads, and protective components. With stable high-temperature performance and enhanced fire-retardant properties, CCEWOOL® Ceramic Fiber Retardant Paper provides a reliable flexible insulation solution for high-temperature equipment and fire-protection systems.

Characteristics:

Excellent flame-retardant performance;

Low heat capacity;

Low thermal conductivity;

Excellent electrical insulation;

Good machinability;

High strength and tear resistance;

Good flexibility;

Low shot content;

Excellent corrosion resistance;

Easy to wrap, form, and cut;

Easy to process.

Applications:

Insulation and protection with direct flame exposure;

High-temperature fire barriers and protective layers;

Welding and brazing protection;

High-temperature sealing gaskets and fire-resistant gaskets;

Insulation for electric heating equipment and smoke-free heating systems;

Fire-resistant insulation for industrial furnaces, ovens, and heat-treatment equipment;

High-temperature separation and protection in casting and glass industries;

High-temperature protection for automotive and aerospace applications;

Fire-resistant electrical insulation for electrical and electronic equipment.

TDS

CCEWOOL® Ceramic Fiber Retardant Paper			
Item	1260STD	1400HA	1430HZ
Operation Temperature	1050°C	1200°C	1350°C
Density (kg/m ³)	180-200		
Tensile Strength (PSI)	58	94	136
Linear Shrinkage (%)			
@1000C,24hrs	2	-	-
@1100C,24hrs	-	2	-
@1200C,24hrs	-	-	2
Lose on ignition (%)	9	9	9
Chemical Composition (%)			
Al ₂ O ₃	46	52-55	39-40
Al ₂ O ₃ +SiO ₂	97	99	-
ZrO ₂	-	-	15-17
Fe ₂ O ₃	1	0.2	0.2
Na ₂ O+K ₂ O	0.5	0.2	0.2
Specification (MM)	60000×610×1 (200'×24"×1/24")		
	30000×610×2 (100'×24"×1/12")		
	20000×610×3 (66'×24"×1/8")		
	15000×610×4 (50'×24"×1/6")		
	12000×610×5 (40'×24"×1/5")		
	10000×610×6 (33'×24"×1/4")		
	Min Width: 5cm (2")		
Package	Inner Plastic Bag +Outer Carton		

CCEWOOL® Intumescent Ceramic Fiber Paper



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Intumescent Ceramic Fiber Paper is a high-temperature ceramic fiber paper combining thermal insulation with active sealing performance. It is made from high-purity ceramic

fiber, natural graphite flakes, and an organic binder through a stable forming process, providing a uniform internal structure and consistent performance.

At approximately 1200°F (649°C), the product expands significantly, with its thickness increasing up to approximately 4 times the original thickness. During heating, it automatically fills installation gaps, improving sealing reliability at elevated temperatures. This makes it particularly suitable for high-temperature gaskets, seals, and structures requiring thermal expansion compensation.

While providing intumescent sealing performance, CCEWOOL® Intumescent Ceramic Fiber Paper also maintains good flexibility, thermal insulation, and mechanical integrity. It is easy to cut, punch, and assemble, and is well suited for Fabrication processing into customized gaskets, seals, and high-temperature insulation components.

CCEWOOL® can also provide Fabrication customization according to customer drawings and application requirements, including different sizes, thicknesses, and shapes for high-temperature equipment, sealing systems, and complex structures.

Characteristics:

- Excellent intumescent performance;
- Excellent high-temperature self-sealing performance;
- Low thermal conductivity;
- Low heat capacity and low heat storage;
- Low shot content;
- Lightweight;
- High flexibility and good resilience;
- High strength and tear resistance;
- Good machinability;
- Easy to wrap, form, and cut;
- Good electrical insulation with high dielectric strength;
- Excellent corrosion resistance;
- Good thermal shock resistance.

Applications:

- High-temperature gaskets and seals;
- Expansion joint insulation and sealing;

Fire protection and thermal insulation;
Sealing areas in industrial furnaces and kilns.

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CCEWOOL® Intumescent Ceramic Fiber Paper	
Color	Gray
Maximum temperature rating °C	1260(2300°F)
Continuous use limit °C	1050(1922°F)
Melting point °C	1700(3092°F)
Maximum expand	400%
Chemical Content	
Silica, SiO ₂	45-48
Alumina Oxide, Al ₂ O ₃	42
Carbon, C	10-15
Other	2
Organic Binder	5-10
Tensile Strength	
16-18 pcf. density	0.5-0.7 Mpa
Specification	
Sizes Available	610/1220mm (24"/48")
Thickness	2-5mm (1/12"-1/5")

CCEWOOL® PUREWOOL® Ceramic Fiber Paper for Fabrication



Classification Temperature: 1260°C (2300°F), 1430°C (2600°F)

Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® PUREWOOL® Ceramic Fiber Paper for Fabrication is an engineering-grade ceramic fiber paper developed for high-temperature insulation and precision Fabrication applications. It is made from high-purity aluminosilicate ceramic fiber using a multi-stage shot-removal process and precision wet-forming technology, resulting in a more uniform fiber structure, lower shot

content, stable thermal insulation performance, and excellent processing adaptability.

Compared with conventional industrial ceramic fiber paper, the CCEWOOL® PUREWOOL® series is further optimized in raw material purity, fiber uniformity, and structural consistency. It offers good flexibility and excellent surface flatness, making it particularly suitable for precision Fabrication applications such as die-cut gaskets, multilayer laminates, roll processing, and structural seals.

CCEWOOL® PUREWOOL® Ceramic Fiber Paper also features low thermal conductivity, low heat capacity, good electrical insulation, and resistance to molten metal penetration. It is suitable for high-temperature sealing, insulation gaskets, electrical insulation, and equipment protection.

To meet different equipment and system design requirements, CCEWOOL® can provide Fabrication customization according to customer drawings and process requirements, including customized thicknesses, dimensions, and die-cut shapes.

Characteristics:

- Low thermal conductivity and low heat capacity;
- Uniform fiber structure and low shot content;
- Excellent electrical insulation;
- Good flexibility and tear resistance;
- Flat surface suitable for precision die cutting;
- Excellent Fabrication performance;
- Good resistance to molten metal penetration;
- Suitable for high-temperature sealing and insulation structures.

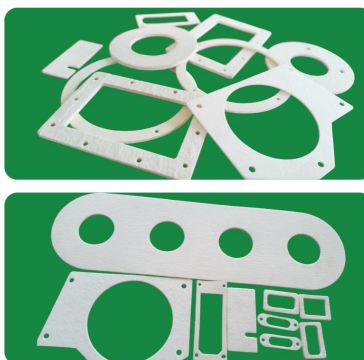
Applications:

- High-temperature sealing and insulation gaskets;
- Thermal protection systems for automotive and aerospace applications;
- Insulation gaskets for household appliances such as ovens and water heaters;
- Automotive acoustic and thermal insulation structures;
- Investment casting mold wrapping and separation gaskets;
- Thermal insulation wrapping for ladles and steel structures;
- High-temperature expansion joint filling;
- Electrical and thermal insulation for heating elements and electrical equipment.

TDS

CCEWOOL® PUREWOOL® Ceramic Fiber Paper for Fabrication		
Item	1260(2300°F)	1430(2600°F)
Operation Temperature	1100°C(2012°F)	1350°C(2462°F)
Density (kg/m3)	200	
Tensile Strength (MPa)	0.4	0.7
Color	White	White
Lose on ignition (%)	≤9	≤6
Chemical Composition (%)		
Al ₂ O ₃	≥44	≥35
SiO ₂	≥55	≥49
ZrO ₂	-	≥15
Thermal Conductivity (w/m.k)		
200°C (392°F)	0.06	0.06
400°C (752°F)	0.09	0.08
600°C (1112 °F)	0.13	0.13
800°C (1472°F)	0.19	0.18
1000°C (1832°F)	-	0.29
1200°C (2192°F)	-	0.43
Specification (MM)	60000×610×1 (200'×24"×1/24") 30000×610×2 (100'×24"×1/12")	
	20000×610×3 (66'×24"×1/8") 15000×610×4 (50'×24"×1/6")	
	12000×610×5 (40'×24"×1/5") 10000×610×6 (33'×24"×1/4")	
	Min Width: 5cm (2")	
Package	Inner Plastic Bag +Outer Carton	

CCEWOOL® Ceramic Fiber Gasket for Fabrication



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

Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Ceramic Fiber Gasket for Fabrication is a customized ceramic fiber product developed for

high-temperature sealing, thermal insulation cushioning, and structural isolation. It is made from high-purity ceramic fiber with a small amount of selected binder and processed through a nine-stage fine shot-removal process, resulting in uniform fiber distribution, low shot content, stable thermal insulation performance, and good structural integrity at elevated temperatures.

The product is not simply cut from standard board or paper materials. It is developed specifically for Fabrication applications requiring higher dimensional accuracy, shape matching, and installation stability. Using fully automated CNC cutting equipment, gaskets can be customized according to customer drawings in different sizes, thicknesses, and complex shapes, with clean, burr-free edges for better fitting around flanges, joints, molds, and other irregular high-temperature sealing areas.

CCEWOOL® Ceramic Fiber Gasket for Fabrication combines good flexibility, mechanical integrity, and conformability. It is resistant to brittleness and cracking while maintaining adequate strength, and can be used for multilayer structures, die-cut components, and custom sealing designs. Compared with on-site cutting of standard materials, it helps reduce assembly errors, improve installation efficiency, and enhance the consistency and reliability of high-temperature sealing systems.

In practical applications, CCEWOOL® Ceramic Fiber Gasket for Fabrication is widely used for casting gaskets, mold release separation, high-temperature sealing, and thermal insulation cushioning. It helps protect furnace linings and molds, reduce thermal damage and adhesion, and improve equipment reliability and service life.

Characteristics:

Excellent processing performance;

High-temperature sealing performance;

Good dimensional stability;

Low heat capacity;

Low thermal conductivity;

Excellent electrical insulation;

High strength and tear resistance;

High flexibility.

Applications:

Furnace door and flange sealing for industrial heating, annealing, and normalizing furnaces;

High-temperature sealing for burners and pipeline connections in steel and non-ferrous metal industries;

Mold separation gaskets and molten-material penetration barriers in glass and ceramic applications;

Thermal insulation and sealing for electric furnaces and electric heating equipment;

Replaceable sealing gaskets for high-temperature equipment maintenance and repair.

TDS

CCEWOOL® Ceramic Fiber Gasket for Fabrication			
Item	1260S	1400	1430HZ
Operation Temperature	1050°C(1922°F)	1200°C(2192°F)	1350°C(2462°F)
Density (kg/m3)	180-200		
Tensile Strength (PSI)	58	94	136
Linear Shrinkage (%)			
1000C,24hrs	2	-	-
1100C,24hrs	-	2	-
1200C,24hrs	-	-	2
Lose on ignition (%)	9	9	9
Chemical Composition (%)			
Al ₂ O ₃	42-47	52-55	39-40
Al ₂ O ₃ +SiO ₂	97	99	-
ZrO ₂	-	-	15-17

Fe ₂ O ₃	1	0.2	0.2
Na ₂ O+K ₂ O	0.5	0.2	0.2
Package	Inner Plastic Bag +Outer Carton		