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

CCEWOOL® Low Biopersistent Fiber Paper

Temperature Grade: 1200℃ (2192℉)
CCEWOOL® Low Biopersistent Fiber Paper is made from alkaline-earth silicate fibers primarily composed of SiO2, MgO, and CaO, blended with specific organic binders. This soluble fiber product is an innovative solution for high-temperature applications. With its unique calcium-magnesium chemical composition, it meets the requirements of applications up to 1200℃ (2192℉) while also demonstrating significant solubility and environmental-friendly characteristics. We offer soluble fiber paper in thicknesses ranging from 0.5 to 12mm. The product's safe operating temperature reaches up to 1200℃.

Characteristics:
Low bio-persistence fibre;
Excellent thermal insulating performance;
Thin, flexible high-temperature insulation;
Immune to thermal shock;
Low heat storage;
Easily die-cut to form complex shapes for high-temperature gasketing;
Excellent tensile strength;
Low thermal conductivity;
Non-wetting to molten aluminium.

Application:
High temperature gasket and sealing in various application;
Fire proof;
Fireproof doors;
Expansion joints ;
Fireplace converter gasket;
Gasket between Aluminum and zinc washer
- High temperature gaskets
- Metal lining;

Melting and holding furnaces refractory backing;

TDS

CCEWOOL® Low Biopersistent Fiber Paper	
Classification temperature	1200 ℃(2192℉)
Density, Kg/m3	190-210
Operation temperature	1000℃ (1832℉)

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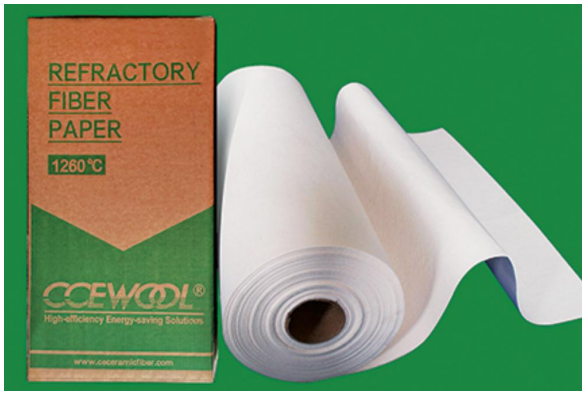
Melting point	>1300℃ (2372℉)
Tensile strength(Kpa)	>250
Loss on ignition (wt%)	9
Permanent Linear shrinkage, % ENV(1094-1)	
After 24 hours ®1000℃	1.5
Thermal conductivity (%)	
400℃	0.1
600℃	0.16
800℃	0.22
Chemical composition (%)	
SiO2	65-68
CaO+MgO	27-33
others	<=3%
Specification (MM)	60000×610×1 (200'×24"×1/24") 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 Paper



Temperature Grade 1260℃(2300℉), 1400℃(2552℉), 1430℃(2606℉)

CCEWOOL® Ceramic Fiber Paper is produced from high-purity refractory ceramic fibers along with a small amount of binder through a nine-step slag removal process. The product possesses excellent thermal insulation and construction properties, making it highly suitable for deep processing (such as multi-layer composites, punching, etc.) for applications including high-temperature insulation, thermal insulation, sealing, electrical insulation, sound absorption, filtration, and more. Its exceptional resistance to molten metal penetration allows the product to be used as casting gaskets for isolation in the construction and glass industries. Refractory ceramic fiber paper is available in

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thicknesses ranging from 0.5 to 12mm and can be cut into various sizes and shapes according to customer requirements.

Characteristics:

Low thermal capacity;
Low thermal conductivity;
Excellent electrical insulation properties;
Excellent machining performance;
High strength, tear resistance;
High flexibility;
Low shot content.

Application:

Automotive and aerospace heat shields;
Gaskets for ovens, stoves, heaters and other appliances;
Automotive muffler insulation;
Investment casting mold wrap;
Expansion joints filling material;
Insulation material for instruments and heating element.

TDS

CCEWOOL® Ceramic Fiber Paper			
Item	1260S	1400	1430HZ
Operation Temperature	1050℃(1922℉)	1200℃(2192℉)	1350℃(2462℉)
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")		

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	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

Temperature Grade 1260℃（2300℉）
CCEWOOL® Intumescent Ceramic Fiber Paper is produced from a mixture of high purity refractory ceramic fiber, natural graphite fine flakes, and organic binders through a fiber washing process. At about 1200 ℉ (649 ℃), CCEWOOL® Intumescent Ceramic Fiber Paper expands up to maximum of 400% of its thickness. This feature serves as excellent material for gasket and sealing applications.

Characteristics:
Low thermal capacity;
Low thermal conductivity;
Excellent electrical insulation properties;
Excellent machining performance;
High strength, tear resistance;
High flexibility;
Low shot content.

Application:
High temperature gasket and seals;
Expansion joints insulation material;
Fire proof;
Seals for industrial furnaces.

TDS

CCEWOOL® Intumescent Ceramic Fiber Paper	
Color	Gray
Maximum temperature rating ℃	1260(2300℉)
Continuous use limit ℃	1050(1922℉)

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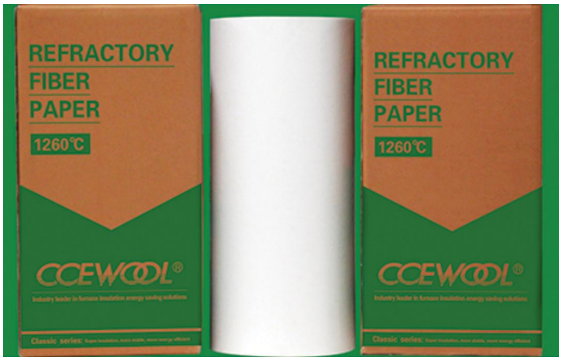
Melting point ℃	1700(3092℉)
Chemical Content	
Silica,SiO_2	45-48
Alumina Oxide,Al_2O_3	42
Carbon, C	10-15
Other	2
Organic Binder	5-10
Tensile Strength	
16-18 pcf. density	0.5-0.7 Mpa
Expansion,%increase	
®400℉	90(from 3mm thickness)
®1800℉	420(from 3mm thickness)
®1800℉	320(from 3mm thickness)
Specification	
Sizes Available	610/1220mm (24”/48”)
Thickness	2-5mm (1/12”-1/5”)

CCEWOOL® Ceramic Fiber Retardant Paper



Temperature degree: 1260℃ （2300℉）， 1400℃ (2550℉)， 1430℃(2600℉)
CCEWOOL® ceramic fiber retardant paper is a new research of our company. Up to now, it is the only product which doesn’t get burnt when contact fire in ceramic fiber paper field. By adding certain proportion fire retardants into ceramic fiber paper’s composition, the paper can be directly contact with fire and won’t get burnt.

Characteristics :
retardant
Low thermal capacity
Low thermal conductivity
Excellent electrical insulation properties
Excellent machining performance
High strength, tear resistance
High flexibility

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Low shot content

Applications:

Industrial insulation, sealing, anti-corrosion material
Insulation material for instruments and heating element
Insulation material for automobile and aerospace industry
Expansion joints filling material
Isolation for construction material, metallurgy and glass industries,
Molten metal sealing gasket
Fireproof material

TDS

CCEWOOL® Ceramic fiber retardant paper			
Item	1260STD	1400HA	1430HZ
Operation Temperature	1050℃	1200℃	1350℃
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	46	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		

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CCEWOOL® Polycrystalline Wool Fiber Paper

Temperature Grade 1600℃（2912℉）

CCEWOOL® Polycrystalline Wool Fiber Paper is engineered for extreme high-temperature environments, with continuous service capability up to 1600°C (2912°F).

Manufactured from high-purity alumina fibers combined with carefully selected binders, it is produced using advanced technology to ensure uniform fiber distribution and precise control over thickness and density.

The product offers exceptional flame resistance, thermal insulation, electrical insulation, and outstanding resistance to both high/low temperatures and aging. It is halogen-free, non-toxic, odorless, and features a high dielectric constant, providing reliable thermal and fire protection for equipment.

Lightweight, flexible, and free from shot content, CCEWOOL® Polycrystalline Fiber Paper is easy to cut and process, and can be used directly for high-temperature insulation or encapsulated for use in electrical equipment, electronic devices, battery cells, and other applications requiring insulation, fire resistance, and thermal protection.

Characteristics:

Excellent high- and low-temperature resistance, with an operating range of -200°C to 1300°C;
Outstanding electrical insulation and aging resistance;
Exceptional acid and alkali resistance, with strength retention above 90% after exposure to strong acids and bases;
Superior thermal insulation performance;
Low smoke, non-toxic, and excellent flame retardancy;
Compliant with EU RoHS Directive.

Application:

Thermal insulation and fire protection for battery cells;
Insulation and flame retardancy for electronic products;
Aerogel thermal insulation composite materials;
Sealing for high-temperature equipment;
Thermal insulation lining for furnace walls;
Resin-based thermal insulation and fireproof composites.

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CCEWOOL® Polycrystalline Wool Fiber Paper		
Test Item	**Standard**	**Technical Specifications**
Appearance	-	Smooth , no impurities
Insulation Performance 1000V DC	Under condition of 1000V DC, test time 60s	Insulation resistance≥500MΩ
Fiber Diameter	-	5.5~7.5μm
Tensile Strength	GBT 17911-2018	≥200kPa
Flame Retardance Property	UL94-V0	Complies with Standards
Thermal Conductivity	GB/T 10297-2015	≤0.04w/m·k
ELV	EU ELV Directive 2000/53/EC	Complies with Standards

Specification								
Thickness (mm)	0.30	0.60	0.80	1.00	2.00	3.00	4.00	5.00
Area Density (g/m2)	20	60	80	100	250	400	550	700