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Battery safety - Battery Safety

Module-Module, Pack thermal barrier protection



CCEWOOL® Ceramic Fiber Paper



Temperature Grade 1260°C (2300°F), 1400°C(2552°F), 1430°C(2606°F) 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 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;



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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

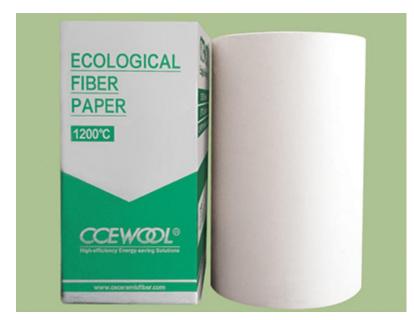
CCEWOOL® Ceramic Fiber Paper				
Item	1260S	1400	1430HZ	
Operation Temperature	1050°C(1922°F)	1200℃(2192°F)	1350°C(2462°F)	
Density (kg/m3)	180-200			
Tensile Strength (PSI)	58	94	136	
Linear Shrinkage (%)				
®1000C,24hrs	2	-	-	
®1100C,24hrs	-	2	-	
®1200C,24hrs	-	-	2	
Lose on ignition (%)	9	9	9	
Chemical Composition (%)				
Al2O3	42-47	52-55	39-40	
Al2O3+SiO2	97	99	-	
ZrO2	-	-	15-17	
Fe2O3	1	0.2	0.2	





Na2O+K20	0.5	0.2	0.2
Specification (MM)	60000*610*1;30000*610*2		
	20000*610*3;15000*610*4		
	12000*610*5;10000*610*6		
	Min Width: 5cm		
Package	Inner Plastic Bag +Outer Carton		

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° C (2192° F) 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° C.

Characteristics:

Low bio-persistence fibre;

Excellent thermal insulating performance;

Thin, flexible high-temperature insulation;

Immune to thermal shock;



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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°F)	
Density, Kg/m3	190-210	
Operation temperature	1000℃ (1832℉)	
Melting point	>1300°C (2372°F)	
Tensile strength(Kpa)	>250	
Loss on ignition (wt%)	9	
Permanent Linear shrinkage, % ENV(1094-1)		





After 24 hours	1.5		
®1000℃	1.3		
Thermal conductivity (%)			
400℃	0.1		
600℃	0.16		
800℃	0.22		
Chemical composition (%)			
SiO2	65-68		
CaO+MgO	27-33		
others	<=3%		
	60000*610*1;30000*610*2		
Specification (MM)	20000*610*3;15000*610*4		
	12000*610*5;10000*610*6		
	Min Width: 5cm		
Package	Inner Plastic Bag+Outer Carton		

CCEWOOL® Polycrystalline Wool Fiber Paper



Temperature Grade 1600℃ (2912°F)

CCEWOOL® Polycrystalline Wool Fiber Paper is designed for high temperature applications up to 1600°C. Manufactured from high purity Alumina fibres, using advanced production techniques to ensure uniform fibre distribution and close control of thickness and density.

CCEWOOL® Polycrystalline Wool Fiber Paper is



produced using Alumina fibres with the minimum addition of carefully selected bonds, which burn out in service. The ultra-clean 'shot' free properties of the product promote excellent handling and strength characteristics. CCEWOOL® Polycrystalline Wool Fiber Paper has significant benefits as a separating and parting media for vacuum brazing applications and heat treatment. Other applications include gaskets and seals in furnaces with reducing atmospheres and hot isostatic pressing.

Characteristics:

Almost no shot, white color, and high purity of raw materials;

Good high temperature resistance and good high-temperature stability;

Extremely low thermal conductivity, low linear shrinkage after heating;

Stable chemical properties and strong corrosion resistance;

Uniform fiber diameter and high tensile strength;

Excellent thermal stability and thermal shock resistance;

Excellent chemical stability.

Application:

Expansion joints in industrial furnace linings;

Strips in new fiber module lining overcome shrinkage;

Gap filling for lining maintenance/repair;

High Temperature Gaskets and Seals.

TDS

CCEWOOL® Polycrystalline Wool Fiber Paper			
Typical Chemical Analysis (fibre wt. %)			
Al2O3	95–97		
SiO2	3–5		
Trace	<0.5		
Physical Properties			



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Colour	White
Classification Temperature (°C)*	1600(2912°F)
Product Density (kg/m3)	160
Product Thickness (mm)+	8
Loss on Ignition (wt. %)	
from Fibre	0
from Felt	<12