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

CCEWOOL® Low Biopersistent Fiber Textiles

Temperature Grade: 1200°C (2300°F)
CCEWOOL® Low Biopersistent Fiber Textiles are made from soluble fibers combined with glass filament or stainless steel wire. Soluble fiber products are an innovative solution for high-temperature applications. Based on their unique chemical composition with calcium and magnesium, they can meet the demands of 1200°C usage while maintaining significant solubility and environmental characteristics. CCEWOOL® Low Biopersistent Fiber Textiles exhibit excellent chemical stability, remaining unaffected by most chemicals except for hydrofluoric acid, phosphoric acid, and concentrated alkalis. Even when exposed to water or steam, their thermal and physical properties remain unaffected after drying. They possess a solubility certificate from the European Fraunhofer Laboratory.

Characteristics:
Low thermal conductivity
Excellent thermal shock resistance, thermal stability
Excellent tensile strength
Sound insulation
Easy cut and easy stall
Containing no asbestos
Chemical corrosion resistance.

Applications:
Furnace door insulation and sealing
Filling expansion joints in boilers and kilns
Coke oven door frame sealing
High-temperature gaskets and packaging
Expansion joint filling
Heat treatment furnace for wrapping radiation tubes
Coating between reinforcement and casing to prevent molten liquid leakage

TDS

Description	CCEWOOL® Low Biopersistent Fiber Textiles					
	Cloth		Tape		Yarn	
Reinforcement	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel

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

Continuous Temperature Use Limit (℃)	650	1000	650	1000	650	1000
Color	Light Bluish		Light Bluish		Light Bluish	
Density (kg/m³)	500		550-600		-	
Organic Content (%)	≤18		≤18		≤18	
Description	**CCEWOOL® EcoFiber Textiles**					
	Round Braided Rope		Square Braided Rope		Twisted Rope	Woolen Rope
Reinforcement	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel	Glass Fiber
Continuous Temperature Use Limit (℃)	650	1000	650	1000	650	1000	650
Color	Light Bluish		Light Bluish		Light Bluish	Light Bluish
Density (kg/m³)	550-600		550-600		550-600	550-600
Organic Content (%)	≤18		≤18		≤18	≤18

CCEWOOL® Ceramic Fiber Yarn

Temperature Grade: 1260°C (2300°F)
CCEWOOL® Ceramic Fiber Yarn is made through a special process using refractory ceramic fiber cotton, non-alkali glass filament, and high-temperature-resistant stainless steel alloy wire. It is used for the installation of insulation materials and heat conduction systems and is also widely used in the production of other refractory ceramic fiber textiles. Products made from CCEWOOL® Ceramic Fiber Yarn are sturdy, chemically stable, and have excellent insulation qualities.

Characteristics:
Excellent high-temperature strength;
Excellent electrical insulating properties;

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

Excellent resistance to acid, oil, water vapor corrosion;
Low thermal conductivity;
Excellent thermal insulation.

Application:
Stitching fireproof cloth/tape/rope

TDS

CCEWOOL® Ceramic Fiber Yarn		
Classification Temperature (℃)	1260（2300℉）	
Name	Glass Filament Reinforced Yarn	Inconel Wire Reinforced Yarn
Density（kg/m3）	550	
Long-term Operation Temp (℃)	550	1050
Water Content(%)	≤2	
Organic Content（%）	≤15	
Shrinkage at 982℃ （%）	-1%	
Packing of ceramic fiber yarn	Braided Bag/ Carton	

CCEWOOL® Ceramic Fiber Cloth

Temperature Grade: 1260°C (2300°F)
CCEWOOL® Ceramic Fiber Cloth is woven from high-quality refractory ceramic fiber yarn and is a high-performance industrial-grade refractory ceramic fiber fabric suitable for high-temperature applications. It is lightweight, flexible, and available in various thicknesses, widths, and densities. CCEWOOL® Ceramic Fiber Cloth contains a certain amount of organic fibers, which gradually carbonize and turn black when heated, without affecting its normal insulation performance. As the temperature continues to rise, the product will gradually turn white again as the organic fibers are completely carbonized. It is available in two variations, reinforced with either nickel-chromium alloy wire or glass filament, and it has excellent wear resistance and resistance to

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

mechanical damage, maintaining high strength at high temperatures. CCEWOOL® Ceramic Fiber Cloth is easy to manufacture, has low shrinkage, and remains flexible even after exposure to high temperatures.

Characteristics:

Low thermal conductivity
Excellent thermal shock resistance, thermal stability
Excellent tensile strength
Sound insulation
Easy cut and easy stall
Containing no asbestos
Chemical corrosion resistance.

Application:

Gasket and wrapping material
Induction heating furnace coil insulation
Cable and wire insulation (thermal and/or electrical)
Infrared radiating diffusers
Boiler tadpole gaskets
Fuel line insulation
Furnace heat zone separators
Exhaust hood curtains
Pipe hanger insulation

TDS

CCEWOOL® Ceramic Fiber Cloth		
Classification Temperature (℃)	1260（2300℉）	
Name	Glass Filament Reinforced Cloth	Inconel Wire Reinforced Cloth
Density（kg/m3）	550	
Long-term Operation Temp	550	1050
Water Content	≤2	
Organic Content（%）	≤15	
Shrinkage at 982℃ （%）	-1	
Packing of ceramic rope	Braided Bag/ Carton	
Specification (T x W x L)	2mm x 1m x 30m	
	3mm x 1m x 30m	
	5mm x 1m x 20m	
	6mm x 1m x 20m	

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

CCEWOOL® Ceramic Fiber Tape

Temperature Grade: 1260°C (2300°F)
CCEWOOL® Ceramic Fiber Tape is made from high-quality refractory ceramic fiber yarn, reinforced with either glass filament or stainless steel wire. It possesses excellent chemical stability, outstanding resistance to thermal shock, corrosion resistance, and resistance to damage caused by mechanical vibrations and stress. It is highly suitable for industrial applications that require sturdy, flexible, and high-temperature-resistant materials. CCEWOOL® Ceramic Fiber Tape is used in various thermal equipment and heat conduction systems for fire resistance, insulation, and friction applications.

Characteristic:
Low thermal conductivity
Excellent thermal shock resistance, thermal stability
Excellent tensile strength
Sound insulation
Easy cut and easy stall
Containing no asbestos
Chemical corrosion resistance

Application:
Industrial thermal insulation, pipe and cable insulation coating, exhaust piping insulation coating, bolt flange connection, thermal radiation shielding, high temperature furnace door curtain

TDS

CCEWOOL® Ceramic Fiber Tape		
Classification Temperature (℃)	1260（2300℉）	
Name	Glass Filament Reinforced Tape	Inconel Wire Reinforced Tape
Density（kg/m3）	550	
Long-term Operation Temp	550℃	1050℃
Water Content （%）	≤2	
Organic Content（%）	≤15	
Shrinkage at 982℃ （%）	-1	
Packing of ceramic tape	Braided Bag/ Carton	

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

Specification (T x W x L)	2mm x 20mm x 30m
	3mm x 20mm x 30m
	2mm x 30mm x 30m
	3mm x 30mm x 30m
	2mm x 40mm x 30m
	3mm x 40mm x 30m
	2mm x 50mm x 30m
	3mm x 50mm x 30m
	2mm x 60 mm x 30m
	3mm x 60 mm x 30m
	2mm x 75 mm x 30m
	3mm x 75 mm x 30m
	2mm x 80 mm x 30m
	3mm x 80 mm x 30m
	2mm x 100 mm x 30m
	3mm x 100 mm x 30m
	2mm x 150 mm x 30m
	3mm x 150 mm x 30m

CCEWOOL® Ceramic Fiber Rope

Temperature Grade: 1260°C (2300°F)
CCEWOOL® Ceramic Fiber Rope is a series of dense and resilient refractory ceramic fiber materials made from high-quality refractory ceramic fiber cotton as raw material, combined with lightweight yarn and woven through a special process. Depending on different temperature requirements and applications, it may include reinforced materials like glass filament or heat-resistant alloy steel wire. It is widely used in various high-temperature gasket, packing, and sealing applications, particularly suitable for high-temperature and high-pressure mechanical sealing in pumps and valves. CCEWOOL® Ceramic Fiber Rope boasts excellent chemical stability, with the ability to resist most corrosive agents, as well as oxidation and reduction. Even if it gets wet with water or steam, its thermal and physical properties fully recover after drying.

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

Characteristics:

Low thermal conductivity
Excellent thermal shock resistance, thermal stability
Excellent tensile strength
Sound insulation
Easy cut and easy stall
Containing no asbestos
Chemical corrosion resistance.

Application:

Furnace doors insulation and seals
Expansion joint filling in furnace and boiler
Coke oven door seals
High temperature gasket and packing
Radiant tube packing heat treatment furnace
Packed between steel bar and tube to avoid leakage of melting liquid

TDS

CCEWOOL® Ceramic Fiber Rope		
Classification Temperature （℃）	1260（2300℉）	
Name	Glass Filament Reinforced Rope	Inconel Wire Reinforced Rope
Density（kg/m3）	550	
Long-term Operation Temp	550	1050
Water Content	≤2	
Organic Content（%）	≤15	
Shrinkage at 982℃ （%）	-1	
Size (diameter) (mm)	6-120	
Packing of ceramic rope	Braided Bag/ Carton	