

CCEWOOL® Ceramic Fiber Yarn



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Fiber Yarn is a high-temperature resistant yarn made from our own 1260°C ceramic fiber textile bulk and reinforced with alkali-free glass filament or high-temperature stainless steel wire through a patented spinning process. During

production, the fiber ratio, spinning tension, and reinforcement structure are precisely controlled to ensure stable yarn construction and uniform diameter.

While retaining the excellent high-temperature resistance of ceramic fiber, the yarn also provides good flexibility, mechanical strength, electrical insulation, and resistance to acids, oils, and chemical corrosion, making it suitable for a wide range of high-temperature insulation and sealing applications.

CCEWOOL® Ceramic Fiber Yarn is widely used for sewing, fixing, and installing high-temperature insulation materials and as an auxiliary component in thermal systems. It is also a basic raw material for manufacturing ceramic fiber cloth, tape, rope, sleeving, and protective textiles. Its stable performance makes it suitable for flexible sealing systems, fire-resistant clothing, fire blankets, and other high-temperature protection applications.

Characteristics:

- Excellent high-temperature strength;
- Excellent electrical insulation;
- Good mechanical strength and flexibility;
- Low thermal conductivity;
- Good processability;
- Excellent thermal insulation;
- Excellent corrosion resistance.

Applications:

Zibo Double Egret Thermal Insulation Co., Ltd
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Sewing for high-temperature insulation and sealing systems;
Sewing and manufacturing of fire-resistant cloth, tape, and rope.

TDS

CCEWOOL® Ceramic Fiber Yarn		
Classification Temperature (°C)	1260 (2300°F)	
Name	Glass Filament Reinforced Yarn	Stainless-steel Reinforced Yarn
Long-term Operation Temp (°C)	650	1000
Water Content(%)	≤2	
Organic Content (%)	≤15	
Shrinkage at 982°C (%)	-1%	
Packing of ceramic fiber yarn	Braided Bag/ Carton	

CCEWOOL® Ceramic Fiber Cloth



Classification Temperature: 1260°C (2300°F)
Chemical Composition: Alumina, Silica
CCEWOOL® Ceramic Fiber Cloth is an industrial-grade heat-resistant fabric woven from high-performance ceramic fiber yarn using a precision weaving process. It combines reliable high-temperature performance with good strength, flexibility, and installation adaptability. To meet different operating requirements, CCEWOOL® Ceramic Fiber Cloth is available in multiple thicknesses and can be reinforced with either fiberglass filament

or stainless steel wire. These reinforcement options improve tensile strength, abrasion resistance, and

resistance to mechanical damage at elevated temperatures, allowing the fabric to maintain stable performance under vibration, friction, and repeated thermal cycling.

During weaving, a controlled amount of organic processing aid is used to improve handling at room temperature. During initial heating, this organic component gradually carbonizes and eventually burns out completely. As the temperature rises further, the fabric returns to a white appearance and its performance stabilizes without affecting its thermal insulation or refractory properties. CCEWOOL® can also provide sintered ceramic fiber cloth containing no organic components.

CCEWOOL® Ceramic Fiber Cloth features low shrinkage and good flexibility at elevated temperatures. It can be cut, sewn, and formed, making it easy to install and process. These properties make it suitable for heat-resistant covers, fire curtains, insulation jackets, flexible seals, and other ceramic fiber textile products.

Characteristics:

- Low thermal conductivity;
- Excellent mechanical strength and flexibility;
- Excellent thermal shock resistance;
- Excellent thermal stability;
- Excellent tensile strength;
- Easy to cut and install;
- Fire-resistant and flame-retardant;
- Excellent chemical corrosion resistance.

Applications:

High-Temperature Equipment Insulation

For thermal insulation and radiant heat shielding of hot pipes, vessels, and high-temperature metal components.

Industrial Fire Protection and Safety

Suitable for fire curtains, protective clothing, fire blankets, and other high-temperature protection applications.

Pipe and Cable Insulation Wrapping

For fire and thermal protection of cables, wires, fuel lines, and exhaust pipes.

Expansion Joints and Flexible Sealing

Used as expansion joint fabric and high-temperature compensation material for thermal expansion and contraction.

High-Temperature Sealing Products

Used for gaskets, tadpole gaskets, and other high-temperature insulation and sealing applications.

TDS

CCEWOOL® Ceramic Fiber Cloth		
Classification Temperature (°C)	1260 (2300°F)	
Name	Glass Filament Reinforced Cloth	Stainless-steel Reinforced Cloth
Density (kg/m ³)	500	
Long-term Operation Temp	650	1000
Water Content	≤2	
Organic Content (%)	≤15	
Shrinkage at 982°C (%)	-1	
Packing of ceramic rope	Braided Bag/ Carton	
Specification (T x W x L)	2mm x 1m x 30m (1/12" x 40" x 100')	
	3mm x 1m x 30m (1/8" x 40" x 100')	
	5mm x 1m x 20m (1/5" x 40" x 66')	
	6mm x 1m x 20m (1/4" x 40" x 66')	

CCEWOOL® Ceramic Fiber Tape



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Fiber Tape is a flexible high-temperature insulation product precision-woven from high-quality refractory ceramic fiber yarn. Depending on operating conditions, it can be reinforced with fiberglass filament or stainless steel wire to improve tensile strength, abrasion resistance, and mechanical stability. A small amount of organic carrier is used during weaving and forming and

burns out completely at approximately 400°C without affecting the subsequent insulation, fire-protection, or sealing performance.

CCEWOOL® Ceramic Fiber Tape combines lightweight construction, flexibility, and high strength, allowing it to conform closely to irregular structures while maintaining stable performance under high temperatures, vibration, and thermal cycling. Its excellent chemical stability also provides resistance to various corrosive media, together with good thermal shock resistance for long-term industrial service.

In practical applications, CCEWOOL® Ceramic Fiber Tape is widely used in heat-treatment equipment, metallurgical furnaces, hot-air and flue-gas ducts, high-temperature expansion joints, and sealing systems for fire protection, thermal insulation, sealing, and friction protection. Its reliable thermal stability and resistance to mechanical damage help extend equipment service life and reduce maintenance requirements.

Characteristics:

Excellent thermal insulation;
Low thermal conductivity;
Excellent thermal shock resistance and thermal stability;
Excellent tensile strength;
Flexible with high mechanical strength;
Good sound insulation;
Easy to cut and install;
Asbestos-free;
Chemical corrosion resistance;
Good processability.

Applications:

Industrial furnace door sealing and high-temperature gap insulation;
Wrapping of pipes and valve bodies in heat-treatment and heating furnaces;
Fire protection for hot-air systems and exhaust ducts;
Filling and sealing of furnace lining expansion joints;
Thermal protection for automotive, shipbuilding, and power-generation equipment.

TDS

CCEWOOL® Ceramic Fiber Tape		
Classification Temperature (°C)	1260 (2300°F)	
Name	Glass Filament Reinforced Tape	Stainless-steel Reinforced Tape
Density (kg/m ³)	500-550	
Long-term Operation Temp	650°C	1000°C
Water Content (%)	≤2	
Organic Content (%)	≤15	
Shrinkage at 982°C (%)	-1	
Packing of ceramic tape	Braided Bag/ Carton	
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



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Fiber Rope is made from high-quality refractory ceramic fiber yarn through multi-strand braiding or twisting processes and can be reinforced with fiberglass filament or high-temperature stainless steel wire according to operating conditions. This structure enables the rope to maintain stable mechanical strength, good compression recovery, and reliable sealing performance under high-temperature, high-pressure,

and vibration conditions. Available in round rope, square rope, and twisted rope constructions, it can adapt to different sealing grooves and installation methods and is widely used for packing, sealing, and insulation in high-temperature equipment.

CCEWOOL® Ceramic Fiber Rope offers good chemical stability in most industrial atmospheres and resists common acids, alkalis, oils, and steam, except hydrofluoric acid, phosphoric acid, and strong alkalis. Even after exposure to moisture or steam, its original thermal and physical properties can be restored after thorough drying, making it suitable for long-term service.

With stable high-temperature performance, good compression sealing properties, and reliable durability, CCEWOOL® Ceramic Fiber Rope is widely used in metallurgy, petrochemical, power generation, glass, machinery manufacturing, and other industries for sealing and insulation in high-temperature pumps, valves, furnace doors, and thermal equipment.

Characteristics:

- Low thermal conductivity;
- Excellent thermal shock resistance and thermal stability;
- Excellent tensile strength;
- Fire-resistant and flame-retardant;
- Easy to cut and install;

Asbestos-free;
Excellent chemical corrosion resistance.

Applications:

Mechanical seals and packing rings for high-temperature pumps and valves;
Heat-resistant sealing for industrial furnace doors and access openings;
Thermal insulation and protection for furnace expansion joints and pipe connections;
Thermal sealing for heat-treatment equipment, exhaust systems, and combustion equipment;
High-temperature connection and cushioning layers in power generation, petrochemical, and glass industries;
Sealing for industrial furnaces, boilers, kilns, ovens, stove doors, and openings;
Furnace door insulation and door seals;
Lid sealing rings;
Coke oven door frame seals;
Expansion and movement joint filling;
High-temperature gaskets and packing applications;
Seals for metal casting applications;
Seals for continuous casting processes;
High-temperature wrapping for ducts and pipelines;
Sealing between steel bars and sleeves to help prevent leakage of molten metal or other molten materials;
Applications requiring high-temperature resistance, thermal shock resistance, and flexible sealing.

TDS

CCEWOOL® Ceramic Fiber Rope		
Classification Temperature (°C)	1260 (2300°F)	
Name	Glass Filament Reinforced Rope	Stainless-steel Reinforced Rope
Density (kg/m ³)	500	
Long-term Operation Temp	650	1000
Water Content	≤2	

Organic Content (%)	≤15
Shrinkage at 982°C (%)	-1
Size (diameter) (mm)	6-120
Packing of ceramic rope	Braided Bag/ Carton