

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/m3)	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')