

CCEWOOL® Bio Soluble Fiber Cloth



Classification Temperature: 1200°C (2192°F)

Chemical Composition: Silicon, Calcium, Magnesium (AES)

CCEWOOL® Bio Soluble Fiber Cloth is woven from our own alkaline earth silicate (AES) fibers and is a new-generation high-temperature textile combining reliable thermal insulation performance with improved occupational safety. The product offers low thermal conductivity and excellent insulation performance, helping reduce heat transfer, surface temperature, and heat loss under high-temperature conditions while

improving overall system energy efficiency and the working environment.

Compared with conventional RCF (Refractory Ceramic Fiber) textiles, CCEWOOL® AES Fiber Cloth provides similar high-temperature performance while offering lower biopersistence and improved handling safety.

CCEWOOL® Bio Soluble Fiber Cloth also provides good flexibility and conformability, allowing it to closely fit curved, irregular, or confined structures without easily cracking or lifting at the edges. It is widely used in high-temperature gaskets and seals, welding protection, furnace and pipeline insulation, automotive and aerospace thermal protection, exhaust and flue systems, and fire-resistant thermal barriers.

Characteristics:

- High mechanical strength;
- Excellent chemical stability;
- Low thermal conductivity;
- Excellent thermal shock resistance and thermal stability;
- Excellent tensile strength;
- Good sound insulation;
- Easy to process and highly adaptable;

Good chemical corrosion resistance.

Applications:

Furnace door seals, furnace wall linings, and removable insulation curtains;

High-temperature gaskets and seals;

Welding curtains and protective fabrics;

Thermal insulation wrapping for furnaces and high-temperature equipment;

Casting mold wrapping and thermal insulation covers;

External thermal protection for high-temperature pipelines, burners, valves, and exhaust systems;

Flexible insulation layers for industrial equipment;

Fire door cores and fire curtain fabrics;

Fire and thermal insulation wrapping systems for battery packs and energy storage enclosures;

Thermal insulation and protection for automotive and aerospace components.

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CCEWOOL® Bio Soluble Fiber Cloth		
Description	Cloth	
Reinforcement	Glass Fiber	Stainless Steel
Continuous Temperature Use Limit (°C)	650	1000
Color	Light Bluish	
Density (kg/m³)	500	
Organic Content (%)	≤18	