

CCEWOOL® Bio Soluble Fiber Tape



Classification Temperature: 1200°C (2192°F)

Chemical Composition: Silicon, Calcium, Magnesium (AES)

CCEWOOL® Bio Soluble Fiber Tape is a high-performance high-temperature sealing and insulation product woven from our own alkaline earth silicate (AES) fibers. Its main components are SiO_2 , MgO , and CaO , providing stable high-temperature performance together with lower biopersistence and improved occupational safety, making it suitable for industrial applications with higher safety and environmental requirements.

CCEWOOL® Bio Soluble Fiber Tape can be reinforced

with fiberglass or stainless steel wire to improve tensile strength, tear resistance, abrasion resistance, and vibration resistance at elevated temperatures. This helps the tape maintain reliable performance under frequent start-stop cycles, thermal cycling, and mechanical stress.

The product is suitable for continuous high-temperature service above 1000°C and can be used for furnace door sealing, expansion joint filling, high-temperature pipeline and equipment connection sealing, and thermal barrier applications. Its flexible structure conforms well to complex surfaces and maintains stable sealing and insulation performance under thermal expansion and vibration.

Characteristics:

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

Applications:

Industrial furnaces and heat-treatment equipment: furnace doors, flanges, and access opening seals;

Petrochemical industry: sealing for furnace burners, pipeline connections, and valves;

Aluminum and non-ferrous metals: casting mold wrapping and high-temperature operation protection;

Power generation and new energy: fire and thermal insulation for battery systems and sealing of energy storage enclosures;

Building fire-protection systems: fire doors, fire-resistant expansion joints, and edge sealing for fire curtains.

TDS

CCEWOOL® Bio Soluble Fiber Tape		
Description	Tape	
Reinforcement	Glass Fiber	Stainless Steel
Continuous Temperature Use Limit (°C)	650	1000
Color	Light Bluish	
Density (kg/m³)	550-600	
Organic Content (%)	≤18	