

CCEWOOL® Bio Soluble Fiber Paper



Classification Temperature: 1200°C (2192°F)

Chemical Composition: Silicon, Calcium, Magnesium (AES)

CCEWOOL® Bio Soluble Fiber Paper is made from our own high-purity alkaline earth silicate (AES) fibers combined with a specially formulated organic binder system. It offers good flexibility, mechanical strength, and high-temperature stability, making it suitable for high-temperature insulation, protection, and precision thermal insulation applications.

Compared with conventional aluminosilicate ceramic fiber paper, CCEWOOL® Bio Soluble Fiber Paper

offers the advantages of low biopersistence and improved environmental safety. The fibers have increased solubility in physiological fluids and comply with relevant GHS requirements, making the product more suitable for industrial and equipment applications with higher occupational health, safety, and environmental compliance requirements.

While maintaining its environmental and safety advantages, CCEWOOL® Bio Soluble Fiber Paper also provides good processing adaptability and dimensional stability, making it suitable as a base material for Fabrication processing. It can be further processed into custom-shaped components, gaskets, heat shields, seals, and multilayer composite insulation structures.

With its environmental advantages, reliable high-temperature performance, and good Fabrication adaptability, CCEWOOL® Bio Soluble Fiber Paper is widely used in high-temperature insulation, protective wrapping, sealing gaskets, heat shields, and multilayer insulation systems.

Characteristics:

- Low-biopersistence fiber;
- Excellent thermal insulation with low thermal conductivity;
- Low heat storage and fast thermal response;
- Good high-temperature stability;

Lightweight, thin, and flexible;
Excellent thermal shock resistance;
Excellent tensile strength;
Easy to process and die-cut into complex shapes;
Suitable for high-temperature gaskets and sealing;
Non-wetting to molten aluminum;
Ultra-low shot content.

Applications:

Refractory backup and separation layers for molten metal handling equipment;
High-temperature sealing pads and gaskets;
Expansion joint insulation and sealing;
Thermal insulation and sealing for industrial and domestic appliances, including ovens, stoves, boilers, electric heaters, and small appliances;
Glassware separation materials;
Refractory backup for glass tanks and glass-processing equipment;
Non-ferrous metal ingot mold linings;
Backup insulation for aluminum transfer systems;
Separation media in induction furnaces;
Automotive heat shields and muffler insulation;
Thermal insulation and separators for EV batteries;
Investment casting mold wrapping;
Ladle backup insulation;
Ladle shrouds and nozzle wrapping;
Fire-protection applications, including fire doors and fire-resistant insulation layers;
Multipurpose high-temperature padding and separation materials;
Fireplace catalytic converter mats;
Aluminum filter cup gaskets;
Separation gaskets between aluminum and zinc trough sections;
Metal trough linings.

TDS

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CCEWOOL® Bio Soluble Fiber Paper	
Classification temperature	1200°C(2192°F)
Density, Kg/m3	190-210
Operation temperature	1000°C (1832°F)
Melting point	>1300°C (2372°F)
Tensile strength(Kpa)	>250
Loss on ignition (wt%)	9
Permanent Linear shrinkage, % ENV(1094-1)	
After 24 hours @1000°C	1.5
Thermal conductivity (%)	
400°C	0.1
600°C	0.16
800°C	0.22
Chemical composition (%)	
SiO2	65-68
CaO+MgO	27-33
others	<=3%
Specification (MM)	60000×610×1 (200'×24"×1/24")
	30000×610×2 (100'×24"×1/12")
	20000×610×3 (66'×24"×1/8")
	15000×610×4 (50'×24"×1/6")
	12000×610×5 (40'×24"×1/5")
	10000×610×6 (33'×24"×1/4")
	Min Width: 5cm (2")
Package	Inner Plastic Bag+Outer Carton