

CCEWOOL® Bio Soluble Fiber Yarn



Classification Temperature: 1200°C (2192°F)

Chemical Composition: Silicon, Calcium, Magnesium (AES)

CCEWOOL® Bio Soluble Fiber Yarn is a reinforced fiber product developed for high-temperature textile applications. It is made primarily from our own high-quality alkaline earth silicate (AES) bio-soluble fiber and reinforced with continuous fiberglass filament or stainless steel wire. This composite

reinforcement structure significantly improves tensile strength, abrasion resistance, and dimensional stability, helping the yarn meet demanding weaving and long-term service requirements.

Compared with conventional refractory ceramic fiber yarn, CCEWOOL® Bio Soluble Fiber Yarn maintains reliable high-temperature performance while offering improved handling safety and lower biopersistence. Its good flexibility, high strength, and processing adaptability make it suitable for manufacturing a wide range of high-temperature textiles and for sealing, insulation, protection, and industrial textile applications.

Characteristics:

- High heat resistance;
- Low biopersistence / bio-solubility;
- Low thermal conductivity;
- Excellent thermal stability and thermal shock resistance;
- High tensile strength;
- Good flexibility for various textile processes;
- Stable quality and consistent performance;
- Good chemical corrosion resistance;
- Asbestos-free;
- Good sound insulation;
- Easy to cut, process, and install.

Applications:

Manufacturing of high-temperature textiles, including cloth, tape, and rope;
Thermal insulation for industrial equipment;
Gasket and seal production;
Fire-resistant textiles;
Welding protection and thermal insulation;
High-temperature filtration media;
Furnace door seals and expansion joint fillers;
Sealing layers for furnace burner openings, high-temperature pipelines, and valves;
High-temperature flexible connections;
High-temperature thermal barriers;
Fire and thermal protection wrapping for automotive and new-energy equipment;
Heat-resistant textiles for fire doors and building protection systems.

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