CCEWOOL® Bio Soluble Fiber Bulk

Classification Temperature: 1200°C (2192°F), 1300°C (2372°F)

Chemical Composition: Silicon, Calcium, Magnesium (AES)

CCEWOOL® Bio Soluble Fiber Bulk is made from low-biopersistence AES (alkaline earth silicate) fibers based on calcium, magnesium, and silicate chemistry. While maintaining reliable high-temperature performance, it also offers improved occupational health and environmental characteristics. The fibers are soft and uniform, with low thermal conductivity, low heat storage, and good thermal shock resistance, making the product suitable for direct use as loose-fill high-temperature insulation.

CCEWOOL® Bio Soluble Fiber Bulk is also an important raw material for bio-soluble fiber blankets, boards, papers, textiles, and vacuum-formed products. According to downstream processing requirements, it can be further chopped, milled, and classified into different fiber lengths and particle sizes for wet-forming, Fabrication processing, and other high-temperature insulation products.

In practical applications, CCEWOOL® Bio Soluble Fiber Bulk can be used as loose-fill insulation in industrial furnaces, boilers, pipelines, chimneys, and complex spaces. It is also suitable for expansion joints, furnace bottoms, pipe seals, and burner tile filling, providing a lightweight, stable, and easy-to-install insulation solution for high-temperature equipment.

Characteristics:

Low biopersistence;

Excellent thermal shock resistance;

Low thermal conductivity;

Low heat capacity and low heat storage;

Good thermal stability;

Good chemical stability;

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Resistant to powdering at elevated temperatures;

Binder-free and free of corrosive substances;

Lightweight, soft, and easy to fill;

Good sound absorption;

Easy to process and form.

Applications:

Raw material for bio-soluble fiber blankets, boards, papers, and textiles;

Raw material for vacuum-formed shapes and other fiber products;

Base fiber for Fabrication processing and wet-formed products;

Loose-fill insulation for industrial furnaces, kilns, and boilers;

Insulation for pipelines, chimneys, and high-temperature ducts;

Insulation filling for complex and hard-to-reach areas;

Expansion and movement joint filling;

Furnace bottom sealing;

Pipe sealing filler;

Burner tile filling;

Internal insulation filling for fire doors.

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Chemical Composition (%)		
SiO2	65-68	≥70
CaO	27-33	-
MgO	2-7	-
CaO+MgO	-	≥20
Color	Light Bluish	Light Bluish
Shot Content(%)	≤12	≤12
Fiber Diameter(μm)	3-5	3-5