CCEWOOL Thermomax Inc.

CCEWOOL® Soluble Fiber - CCEWOOL® Soluble Fiber Cloth

CCEWOOL® Soluble Fiber

CCEWOOL® soluble fiber is made from alkaline earth silicate fiber, including soluble blanket, board, paper, yarn, cloth, tape and rope. Soluble fiber is a body soluble fiber and can be absorbed, the color is bluish, is a new type eco-friendly insulation material. Temperature degree: 1200℃.

CCEWOOL® Soluble Fiber Cloth

Description:

CCEWOOL® Soluble Fiber Cloth is woven cloth-shape high temperature products composed of soluble fibers, suitable for 1200C high temperature application. Each soluble yarn is reinforced with glass filament or inconel wire. A few binders will be burnt in a low temperature, thus it won't affect the insulation effect.

Technical data and Size:

CCEWOOL® Soluble Fiber Cloth	
Thickness	1.6-6mm
Width	300-1500mm
Standard Length	30m
Color	Bluish
Temperature	1100-1300℃

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Raw Materials

CCEWOOL soluble fiber cloth is woven from high-quality soluble fiber textile cotton.

Because of the supplements of MgO, CaO and other ingredients, CCEWOOL soluble fiber cotton can expand its viscosity range of fiber formation, enhance its fiber formation conditions, improve fiber formation rate and fiber flexibility, and reduce the content of slag balls, so, the slag ball content of CCEWOOL soluble fiber cloth produced is lower than 8%. The content of the slag ball is an important index that determines the thermal conductivity of the fiber, so CCEWOOL soluble fiber cloth has low thermal conductivity and excellent thermal insulation performance.

Controlling the impurity content of raw materials is an important step to ensure the heat resistance of ceramic fibers. The high impurity content will cause the coarsening of crystal grains and the increase of linear shrinkage, which is an important factor attributing to the deterioration of fiber performance and the reduction of service life.

Through strict control at every step, we reduced the impurity content of raw materials to less than 1%. The thermal shrinkage rate of CCEWOOL soluble fiber cloth is lower than 2% at 1000 ℃, and they have stable quality and longer service life.

Production Process

The kind of organic fiber determines the flexibility of soluble fiber cloth. CCEWOOL soluble fiber cloth uses organic fiber viscose with stronger flexibility.

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The thickness of glass determines strength, and the material of steel wires determines corrosion resistance. CCEWOOL adds different reinforcing materials, such as glass fiber and heat-resistant alloy wires to ensure the quality of the ceramic fiber cloth under different operating temperatures and conditions.

The outer layer of CCEWOOL soluble fiber cloth can be coated with PTFE, silica gel, vermiculite, graphite, and other materials as the heat insulation coating to enhance its tensile strength, erosion resistance, and abrasion resistance.

Quality Control

Each shipment has a dedicated quality inspector, and a test report is provided prior to the departure of products from the factory to ensure the export quality of each shipment of CCEWOOL.

A third-party inspection (such as SGS, BV, etc.) is accepted.

Production is strictly in accordance with ISO9000 quality management system certification.

Products are weighed before packaging to ensure that the actual weight of a single roll is greater than the theoretical weight.

The outer packaging of each carton is made of five layers of kraft paper, and the inner packaging is a plastic bag, suitable for long-distance transportation.

Application Performance

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CCEWOOL soluble fiber cloth has high-temp resistance, low thermal conductivity, thermal shock resistance, low heat capacity, excellent high-temp insulation performance, and a long service life.

CCEWOOL soluble fiber cloth can resist the corrosion of non-ferrous metals, such as aluminum and zinc; it has good low-temp and high-temp strengths.

CCEWOOL soluble fiber cloth is non-toxic, harmless, and has no adverse effects on the environment.

In view of the above advantages, the applications of CCEWOOL soluble fiber cloth include:

Thermal insulation on various furnaces, high-temp pipelines, and containers.

Furnace doors, valves, flange seals, materials of fire doors, fire shutter, or high-temp furnace door's sensitive curtains.

Thermal insulation for engines and instruments, covering materials for fireproof cables, and high-temp fireproof materials.

Cloth for thermal insulation covering or high-temp expansion joint filler, and flue lining

High-temp resistant labor protection products, fire protection clothing, high-temp filtration, sound absorption and other applications in replacement of asbestos.

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