

CCEWOOL® Soluble Fiber **- CCEWOOL® Soluble Fiber Rope**

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°C.

CCEWOOL® Soluble Fiber Rope

Description:

CCEWOOL® Soluble Fiber Rope includes twisted rope, square rope and round rope, which is woven tape-shape high temperature products composed of unidirectional soluble fibers, suitable for 1200C high temperature application. Each soluble yarn is reinforced with glass filament or inconel wire to reinforce the tensile strength of ropes. 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 Rope	
Thickness	1.6-6mm
Width	13-300mm
Standard Length	30m
Color	Bluish

Temperature

1100-1300 °C

Raw Materials

CCEWOOL soluble fiber rope 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 rope 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 rope 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 rope is lower than 2% at 1000 °C, and they have stable quality and longer service life.

Production Process

The kind of organic fiber determines the flexibility of soluble fiber ropes. CCEWOOL soluble fiber ropes use organic fiber viscose with less than 15% loss on ignition and stronger flexibility.

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

CCEWOOL soluble fiber ropes have three types available including round ropes, square ropes and twisted ropes according to customers' usage, sizes ranging from 5 to 150mm.

The outer layer of CCEWOOL soluble fiber ropes can be coated with PTFE, silica gel, vermiculite, graphite, and other materials as heat insulation coating to improve their tensile strengths, 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

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

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

CCEWOOL soluble fiber ropes are non-toxic, harmless, and have no adverse effects on the environment.

Because of the above advantages, CCEWOOL soluble fiber ropes are widely used in chemical, electric power, paper, food, pharmaceutical and other industries for high-temp pipeline insulation and sealing, cable insulation coating, coke oven opening sealing, cracking furnace brick wall expansion joints, sealing of electric furnace and oven doors, boilers, sealing components of high-temp gases, and connections between flexible expansion joints, etc.