CCEWOOL Thermomax Inc.

CCEWOOL® Ceramic Fiber Textile - CCEWOOL® Ceramic Fiber Yarn

CCEWOOL® Ceramic Fiber Textile

CCEWOOL® ceramic fiber textile includes ceramic fiber yarn, cloth, tape and rope. Using ceramic fiber bulk as raw material and made from ceramic fiber strand, CCEWOOL® ceramic fiber textile offers excellent insulation property.

Temperature degree: 1260℃ (2300℉)

CCEWOOL® Ceramic Fiber Yarn

Description:

Temperature degree: 1260℃ (2300℉)

CCEWOOL® ceramic fiber yarn is made from ceramic fiber bulk, alkali free glass filament and high temperature resistant inconel wire through special technology, used as heat insulation material in thermal installations and heat conducting systems, also can be extensively made into all kinds of ceramic fiber textiles and an excellent substitute for asbestos.

Technical data and Size:

CCEWOOL® Ceramic Fiber Yarn

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Classification Temperature (℃)	1260	
Name	Glass Filament Reinforced Yarn	Inconel Wire Reinforced Yarn
Density（kg/m3）	500	
Long-term Operation Temp (℃)	550	1050
Water Content(%)	≤2	
Organic Content（%）	≤15	
Shrinkage at 982℃（%）	-1%	
Packing of ceramic fiber yarn	Braided Bag	

Raw Materials

CCEWOOL ceramic fiber yarn is woven from high-quality ceramic fiber textile cotton.

Controlling the content of impurities is an important step to ensure the heat resistance of ceramic fibers. High impurity content can cause the coarsening of crystal grains and the increase of linear shrinkage, which is the key reason for the deterioration of fiber performance and the reduction of its service life.

Through strict control at each step, we reduce the impurity content of the raw materials to less than 1%. The CCEWOOL ceramic fiber yarn is pure white, and the linear shrinkage rate is lower than 2%. The quality is more stable, and the service life is longer.

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With the imported high-speed centrifuge of which the speed reaches up to 11000r/min, the fiber formation rate is higher. The thickness of the produced CCEWOOL ceramic fiber textile cotton is uniform and even, and the slag ball content is lower than 8%. The content of the slag ball is an important index that determines the thermal conductivity of the fiber, so CCEWOOL ceramic fiber yarn has low thermal conductivity and excellent thermal insulation performance.

Production Process

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

CCEWOOL ceramic fiber yarn is made by adding alkali-free glass filament and high-temp resistant stainless-steel alloy wires through a special process. Therefore, it has good resistance to acid and alkali corrosion as well as molten metals, such as aluminum and zinc.

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.

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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 ceramic fiber yarn has an excellent high-temp tensile strength.

CCEWOOL ceramic fiber yarn is reinforced by alkali-free glass fiber, resulting in a better high-temp insulation performance and a longer service life.

CCEWOOL ceramic fiber yarn is reinforced with steel wires, so it has a stronger resistance to high temperatures and a higher tensile strength.

CCEWOOL ceramic fiber yarn has a low thermal conductivity, low heat capacity, no asbestos and toxic, and it is harmless to the environment.

Based on the above advantages, the typical applications of CCEWOOL ceramic fiber yarn include:

The processing of sewing threads for fireproof clothing, fireproof blankets, detachable insulation covers (bags/quilts/covers), etc.

The stitching threads for ceramic fiber blankets.

It can be used to sew ceramic fiber cloth, ceramic fiber tapes, ceramic fiber ropes and other high-temp resistant textiles, and it can also be used as high-temp sewing threads.

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