

CCEWOOL® Ceramic Fiber Textile
- CCEWOOL® Ceramic Fiber Tape

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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°C (2300°F)

CCEWOOL® Ceramic Fiber Tape

Description:

Temperature degree: 1260°C (2300°F)

CCEWOOL® ceramic fiber tapes are fabricated using high quality ceramic fiber yarn and reinforced with glass filament & inconel wire. It can be typically used as refractory, fireproof and insulation materials in various heat equipments and heat conduction system.

Technical data and Size:

CCEWOOL® Ceramic Fiber Tape	
Classification	1260

Temperature (°C)		
Name	Glass Filament Reinforced Tape	Inconel Wire Reinforced Tape
Density (kg/m³)	500	
Long-term Operation Temp	550°C	1050°C
Water Content (%)	≤2	
Organic Content (%)	≤15	
Shrinkage at 982°C (%)	-1	
Packing of ceramic rope	Braided Bag	

Specification (T*W*L)
2mm x 20mm x 30m
2mm x 20mm x 30m
2mm x 30mm x 30m
2mm x 20mm x 30m
2mm x 40mm x 30m
2mm x 40mm x 30m
2mm x 50mm x 30m
2mm x 50mm x 30m
2mm x 60 mm x 30m
2mm x 60 mm x 30m
2mm x 75 mm x 30m
2mm x 75 mm x 30m
2mm x 80 mm x 30m
2mm x 80 mm x 30m
2mm x 100 mm x 30m
2mm x 100 mm x 30m
2mm x 150 mm x 30m
3mm x 150 mm x 30m

Raw Materials

CCEWOOL ceramic fiber tapes are woven from high-quality ceramic fiber yarn.

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 tape is pure white, and the linear shrinkage rate is lower than 2%. The quality is more stable, and the service life is longer.

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 tape has low thermal conductivity and excellent thermal insulation performance.

Production Process

The kind of organic fiber determines the flexibility of ceramic fiber belts. CCEWOOL ceramic fiber belts adopt 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 belts according to different operating temperatures and conditions.

The outer layer of CCEWOOL ceramic fiber belts 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 ceramic fiber tape has high-temp resistance, low thermal conductivity, thermal shock resistance, low heat capacity, excellent high-temp insulation performance, and a long service life.

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

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

In view of the above advantages, the applications of CCEWOOL ceramic fiber tape 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.