

Ceramic Fiber Textiles **(Tape/ Fabric/ Cloth/ Yarn/ Paper/ Rope)**

Main products:

- Ceramic Fiber Tape;
- Heat Treated Ceramic Fiber Tape;
- Ceramic Fiber Cloth / Fabric;
- Heat Treated Ceramic Fiber Cloth / Fabric;
- Ceramic Fiber Yarn;
- Ceramic Fiber Paper;
- Ceramic Fiber Braided Square/ Round Rope;
- Ceramic Fiber Rope Lagging / Soft Rope;
- Ceramic Fiber Twisted Rope

The non-asbestos ceramic fiber products are developed as an excellent substitute for ASBESTOS in insulation industry, sealing and refractory, etc.,

with the following properties:

- Light weight;
- High temperature resistance (continuous up to 1000°C, max.1260 °C);
- Low thermal conductivity;
- Good abrasion resistance;
- Chemical stability.

Suitable for insulating covering, fireproof/ welding blanket, furnace curtain, fuel ducts/ tank protection, cable covers, cable tray insulation, and extreme low temperature containers heat insulation wrap, etc..

The products are supplied in fabric, tape, sleeve/ tubing, yarn, etc..

Item	Technical data
Color	White
Al ₂ O ₃ + SiO ₂	≥ 96%
Al ₂ O ₃	≥ 45%
Fe ₂ O ₃	≤ 1.2%
Fiber diameter	2 ~ 4μm
Bulk density	300 ~ 700 kg/ m ³
Moisture	≤ 1.0%
Thermal conductivity	0.119 ~ 0.131 w/m.k (300 °C) 0.168 ~ 0.198 w/m.k (1000 °C) 0.128 ~ 0.159 w/m.k (600 °C)
Heating linear shrinkage	≤ 3.5% (1000 °C x 3 hrs)
High-temp loss on Ignition	≤ 20%

Reinforced material Service temperature	Fiberglass yarn Up to 450 °C	Stainless steel wire Up to 1000 °C
Acid-resistance	50% (72 hours in 10% H ₂ SO ₄ reagent)	
Alkali-resistance	50% (72 hours in 10% NaOH reagent)	

- Ceramic Fiber Tape
- Heat Treated Ceramic Fiber Tape

-Reinforced with stainless steel wire or glass fiber;
Availability: width 20-150mm; Thickness 1.5~6mm.



- Ceramic Fiber Cloth / Fabric
- Heat Treated Ceramic Fiber Cloth / Fabric

-Reinforced with stainless steel wire or glass fiber;
Availability: width 300-1500mm (standard 1000mm); Thickness 1.5~6mm.



- Ceramic Fiber Yarn

-Reinforced with stainless steel wire or glass fiber; Availability: 1~5 ply; Tex 400/ 525 / 630 / 780 / 1000 / 2250.



- Ceramic Fiber Paper

Ceramic fiber paper is manufactured from high purity aluminosilicate fibrous wool and bonded by binder, suitable for high temperature insulating, sealing, protecting material for industry; Electric and thermal insulation for electric industry; Insulation for instrument-equipment and insulating material for motor industry, etc., with properties of low thermal conductivity, excellent thermal electrical insulation and breaking resistance.



ClassificationTemp (°C)	1260
Density (kg/m ³)	200±15
Organism content (%)	6 ~ 8
Standard size	Thickness: 0.5 ~ 3mm; Width: 600mm; 610mm

- Ceramic Fiber Braided Rope

The rope is manufactured from ceramic fiber yarn, and braided cover on cover to form a solid packing, suitable for caulking and general thermal insulation application, with properties of low thermal conductivity and suitable for high temperature, etc..

It is available in round and square sections.

Generally reinforced with stainless steel wire or glass fiber yarn.

Ceramic Fiber Braided Round Rope



Ceramic Fiber Braided Square Rope



- Ceramic Fiber Rope Lagging / Soft Rope

Ceramic fiber rope lagging is manufactured from blown ceramic fibre, with a braided cover. It provides an efficient method of insulating pipework and is suitable for a variety of high temperature sealing and caulking applications, also form into insulation rings employed on industrial and domestic heating appliances, with properties of low thermal conductivity, light weight, and suitable for high temperature, etc..



- Ceramic Fiber Twisted Rope

The rope is twisted from ceramic fiber bulk yarn, elastic, suitable for filling and stopping expansion joints between boilers and masonry or brickwork, also insulation for heating pipes. Generally reinforced with stainless steel wire or glass fiber yarn.



Correlative page:

<http://www.mowcoproducts.com/ceramic-fiber-textiles.html>