

CCEWOOL® Ceramic Fiber Rope



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Fiber Rope is made from high-quality refractory ceramic fiber yarn through multi-strand braiding or twisting processes and can be reinforced with fiberglass filament or high-temperature stainless steel wire according to operating conditions. This structure enables the rope to maintain stable mechanical strength, good compression recovery, and reliable sealing performance under high-temperature, high-pressure,

and vibration conditions. Available in round rope, square rope, and twisted rope constructions, it can adapt to different sealing grooves and installation methods and is widely used for packing, sealing, and insulation in high-temperature equipment.

CCEWOOL® Ceramic Fiber Rope offers good chemical stability in most industrial atmospheres and resists common acids, alkalis, oils, and steam, except hydrofluoric acid, phosphoric acid, and strong alkalis. Even after exposure to moisture or steam, its original thermal and physical properties can be restored after thorough drying, making it suitable for long-term service.

With stable high-temperature performance, good compression sealing properties, and reliable durability, CCEWOOL® Ceramic Fiber Rope is widely used in metallurgy, petrochemical, power generation, glass, machinery manufacturing, and other industries for sealing and insulation in high-temperature pumps, valves, furnace doors, and thermal equipment.

Characteristics:

- Low thermal conductivity;
- Excellent thermal shock resistance and thermal stability;
- Excellent tensile strength;
- Fire-resistant and flame-retardant;
- Easy to cut and install;

Asbestos-free;
Excellent chemical corrosion resistance.

Applications:

Mechanical seals and packing rings for high-temperature pumps and valves;
Heat-resistant sealing for industrial furnace doors and access openings;
Thermal insulation and protection for furnace expansion joints and pipe connections;
Thermal sealing for heat-treatment equipment, exhaust systems, and combustion equipment;
High-temperature connection and cushioning layers in power generation, petrochemical, and glass industries;
Sealing for industrial furnaces, boilers, kilns, ovens, stove doors, and openings;
Furnace door insulation and door seals;
Lid sealing rings;
Coke oven door frame seals;
Expansion and movement joint filling;
High-temperature gaskets and packing applications;
Seals for metal casting applications;
Seals for continuous casting processes;
High-temperature wrapping for ducts and pipelines;
Sealing between steel bars and sleeves to help prevent leakage of molten metal or other molten materials;
Applications requiring high-temperature resistance, thermal shock resistance, and flexible sealing.

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Classification Temperature (°C)	1260 (2300°F)	
Name	Glass Filament Reinforced Rope	Stainless-steel Reinforced Rope
Density (kg/m ³)	500	
Long-term Operation Temp	650	1000
Water Content	≤2	

Organic Content (%)	≤15
Shrinkage at 982°C (%)	-1
Size (diameter) (mm)	6-120
Packing of ceramic rope	Braided Bag/ Carton