

## CCEWOOL® Ceramic Fiber Module



Temperature Grades: 1100°C (2012°F), 1260°C (2300°F), 1400°C (2550°F), 1430°C (2600°F)

CCEWOOL® Ceramic Fiber Module is made from spun refractory ceramic fiber blanket, mechanically processed, and produced according to customer drawings. The product is pure white in color, with uniform dimensions, and can be directly fastened to the steel plate anchor pins on the industrial kiln shell, providing excellent fire resistance and insulation, thereby improving the overall

refractory insulation of the kiln. We can design and manufacture modules and shaped modules of corresponding specifications for customers based on the kiln type and specifications, and we can also produce modules of various specifications based on customer-provided drawings.

### Characteristics:

Excellent chemical stability and thermal stability;

Low thermal conductivity, low thermal capacity;

Supporting both soldiers-march-based arrangement and assembly-based arrangement with the help of anchor in various forms in the back of the module;

Module will squeeze with each another in different directions after unbinding, to produce no gap;

Elastic fiber blanket resists to external mechanical forces;

Fiber blanket's elasticity can compensate for the deformation of furnace shell, so that no gap is generated between modules;

Light weight, and absorbing less heat as insulation materials;

Low thermal conductivity brings strong energy-saving effects;

Able to withstand any thermal shock;

Lining need no drying or curing, ready to use immediately after installation;



Anchoring system is far away from hot surface of component, to allow metal anchor member to be in a relatively low temperature.

**Application:**

All kinds of industrial furnace and heating device linings for metallurgy, machinery; construction materials, petrochemicals, non-ferrous metal industries;

Low mass kiln cars;

Roller hearth furnace linings;

Gas Turbine exhaust ducts;

Duct linings;

Furnace hearths;

Boiler insulation;

Furnace lining insulation for high-temperature applications.

**TDS**

<b>CCEWOOL® Ceramic Fiber Module</b>					
Item	1100	1260S	1260HPS	1400	1430HZ
Operation Temp	950°C (1742°F)	1050°C (1922°F)	1100°C (2012°F)	1200°C (2192°F)	1350°C (2462°F)
Density	160-220 kg/m3				
Linear Shrinkage EN1094-1 (%)					
@950°C, 24hrs	1.5	-	-	-	-
@1000°C, 24hrs	2	1.5	1.5	-	-
@1100°C, 24hrs	3	2.5	2	1.5	-
@1200°C, 24hrs	-	3	3	2	1
@1300°C, 24hrs	-	-	-	3	2
@1400°C, 24hrs	-	-	-	-	3
Tensile Strength (Mpa)					
Density-64kg/m3	0.039	0.039	0.039	0.039	0.039
Density-96kg/m3	0.078	0.078	0.078	0.078	0.078

Density-128kg/m3	0.103	0.103	0.103	0.103	0.103
Density-160kg/m3	0.127	0.127	0.127	0.127	0.127
Thermal Conductivity W/(m·k) 128kg/m3-1000℃	0.45	0.43	0.4	0.35	0.3
Chemical Composition (%)					
Al <sub>2</sub> O <sub>3</sub>	≥43	≥44	≥44	≥52	≥35
SiO <sub>2</sub>	≥52	≥52	≥55	≥47	≥49
ZrO <sub>2</sub>	-	-	-	-	≥15
Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub> +ZrO <sub>2</sub>	-	-	-	-	≥99
Fe <sub>2</sub> O <sub>3</sub>	≤1.0	≤0.8	≤0.2	≤0.2	≤0.2
Na <sub>2</sub> O+K <sub>2</sub> O	≤0.4	≤0.3	≤0.2	≤0.2	≤0.2
CaO+MgO	≤0.3	≤0.1	≤0.1	≤0.1	≤0.1
Specification (mm)	L*W: 300*300 (12**12"); 450*300 (18**12"); 600*300 (24**12")				
	H: 100;150;200;250;300 (4",6",8",10",12")				
Package	Carton Box or Pallet				

