

CCEWOOL® Classic series Ceramic Fiber Module

Description:

Temperature degree: 1260°C(2300°F), 1400°C (2550°F), 1430°C(2600°F)

CCEWOOL® Ceramic Fiber Module is made from the corresponding ceramic fiber material acupuncture blanket processed in dedicated machines according to fiber component structure and size. In the process, a certain proportion of compression is maintained, in order to ensure modules expand to the different directions after completion of ceramic fiber folded module wall lining, to create mutual extrusion among modules and form a seamless whole unit. Various shapes of SS304/SS310 are available.

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

Technical data and Size:

CCEWOOL® Classic series Ceramic Fiber Module					
Item	1050	1260STD	1260HP	1400	1430HZ
Operation Temp	950°C	1050°C	1100°C	1200°C	1350°C
Density	160-220 kg/m ³				
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/m ³	0.039	0.039	0.039	0.039	0.039
Density-96kg/m ³	0.078	0.078	0.078	0.078	0.078
Density-128kg/m ³	0.103	0.103	0.103	0.103	0.103
Density-160kg/m ³	0.127	0.127	0.127	0.127	0.127
Thermal Conductivity W/(m·k) 128kg/m ³ -1000°C	0.45	0.43	0.4	0.35	0.3
Chemical Composition (%)					
Al ₂ O ₃	44	45-46	47-49	52-55	35-38
Al ₂ O ₃ +SiO ₂	≥96	≥98	≥99	≥99	-

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ZrO ₂	-	-	-	-	15-17
Al ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	-	-	≥99
Fe ₂ O ₃	≤1.0	≤0.8	≤0.2	≤0.2	≤0.2
Na ₂ O+K ₂ 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;450*300;600*300				
	H: 100;150;200;250;300				
Package	Carton Box or Pallet				

Note:

1. Product which is classified in accordance with temperature range, can also be divided into ceramic fiber cutout, ceramic fiber module and ceramic fiber folded module by different production methods.
2. Types of anchor: SS304, SS310(2520)