CCEWOOL Thermomax Inc.
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CCEWOOL® Water Repellent Ceramic Fiber Blanket

Temperature Grades 1100°C (2012°F), 1260°C (2300°F)

CCEWOOL® Water Repellent Ceramic Fiber Blanket is a refractory ceramic fiber hydrophobic (water-repellent) blanket made from high-strength needled blanket produced from refractory ceramic fiber spun fiber. It features a solvent-based high-temperature nano-hydrophobic material as a surface treatment agent and is manufactured using a unique double-sided internal needle punching process. This product achieves overall water repellency for refractory ceramic fiber blankets and exhibits excellent hydrophobic properties, greatly enhancing the insulation performance of the fibers. It solves the issues of reduced thermal conductivity and insulation body corrosion caused by moisture absorption in conventional fiber blankets.

Characteristics:

Excellent hydrophobicity;

Excellent chemical stability;

Excellent thermal stability;

Excellent tensile strength;

Low thermal conductivity;

Low heat capacity;

Excellent insulation properties;

Good sound absorption

Applications:

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Sheathed steel beams and ventilation ducts;

Installation of firewalls, doors, and ceilings;

Insulation of cables and wires inside wall pipes;

Fire protection for ship decks and bulkheads;

Soundproofing enclosures and measurement rooms;

Sound insulation in industrial and power plants;

Sound barriers;

Building soundproofing;

Soundproofing for ships and automobiles.

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CCEWOOL® Water Repellent Ceramic Fiber Blanket		
Classification temperature	1100℃ (2012℉)	1260 (2300℉)
Operation Temp(℃)(℉)	982 (1800℉)	1050 (1922℉)
Density (kg/m3)	64/ 96/ 128(4,6,8lb/ft3)	
Water content(%)	≤1	
Hydrophobicity(%)	≥99	
Shot Content(%)	≤15	≤15
Color	White	
Chemical Composition of refractory ceramic blanket (%)		
Al2O3	≥43	≥44
SiO2	≥52	≥52
ZrO2	-	-
Permanent Change on Heating (%), EN1094-1 After 24 hours		
®950℃ (1742℉)	≤-3	-
®1000℃ (1832℉)	-	1.5

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®1100℃ (2012℉)	-	2.5
®1200℃ (2192℉)	-	3
®1300℃ (2372℉)	-	-
Tensile Strength(Kg/m3), EN1094-1 KPa		
64kg/m3(4lb/ft3)	28KPa min.	35KPa min.
96kg/m3(6lb/ft3)	45KPa min.	55KPa min.
128kg/m3(8lb/ft3)	70KPa min.	75KPa min.
Heat Conductive Co-efficient W/(m·k)(128kg/m3)		
200℃ (392℉)	0.07	0.07
400℃ (752℉)	0.12	0.12
600℃ (1112 ℉)	0.2	0.2
800℃ (1472℉)	0.35	0.3
1000℃ (1832℉)	-	0.45

Thickness	Density (kg/m3)				Length	Width
mm	64	96	128	160	mm	mm
25	○	√	√	√	7320	610, 1220
38	○	√	√	√	4880	
50	○	√	√	-	3660	

Thickness	Density (lb/ft3)				Length	Width
in	4#	6#	8#	10#	in	in
1”	○	√	√	√	300”	610, 1220 (24”,48”)
3/2”	○	√	√	√	200”	
2”	○	√	√	-	150”	

Note: (√) is standard size, Custom size are available