CCEWOOL Water Repellent Ceramic Fiber Blanket

Temperature Grade: 1100 °C (2012 °F), 1260 °C (2300 °F)

CCEWOOL Water Repellent Ceramic Fiber Blanket is a high-performance, needle-punched insulation mat that combines fire resistance with durable water repellency. Constructed from high-strength ceramic fiber spun blanket and formed via a proprietary dual-sided needle-punch process, its surface is treated with a solvent-based, high-temperature nano water-repellent to impart full-depth hydrophobicity. The minimal additive load preserves the blanket's inherent non-combustibility and allows compatibility with aluminum foil facings.

In cellulosic, hydrocarbon, and jet-fire environments, this water-repellent blanket delivers reliable fire protection while effectively blocking moisture ingress. By preventing the moisture-induced rise in thermal conductivity and loss of insulating performance seen in conventional blankets, it significantly extends the service life and stability of high-temperature insulation systems.

Characteristics:

Excellent water repellency;
Excellent chemical stability;
Excellent thermal stability;
Superior tensile strength;
Low thermal conductivity;
Low heat storage capacity;
Outstanding insulation performance;
Good sound-absorption properties..

Application:

Zibo Double Egret Thermal Insulation Co.,Ltd
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Sheathing for steel beams and ventilation ducts;

Installation in firewalls, doors, and ceilings;

Insulation of cables and wires in wall conduits;

Fire protection for ship decks and bulkheads;

Sound-proof enclosures and test chambers;

Noise insulation in industrial facilities and power plants;

Acoustic barriers;

Building sound insulation;

Marine and automotive sound insulation.

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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
®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.

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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
6	-	-	○	○	7200	610, 1220
13	-	√	√	○	14640	
19	-	√	√	○	9760	
25	○	√	√	√	7320	
38	○	√	√	√	4880	
50	○	√	√	-	3660	

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

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