

## Ship - Deck and Bulkheads



Our developed hydrophobic products provide effective thermal insulation and soundproofing performance for the deck and bulkheads.

## 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 needed 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:**

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.

**TDS**

**CCEWOOL® Water Repellent Ceramic Fiber Blanket**



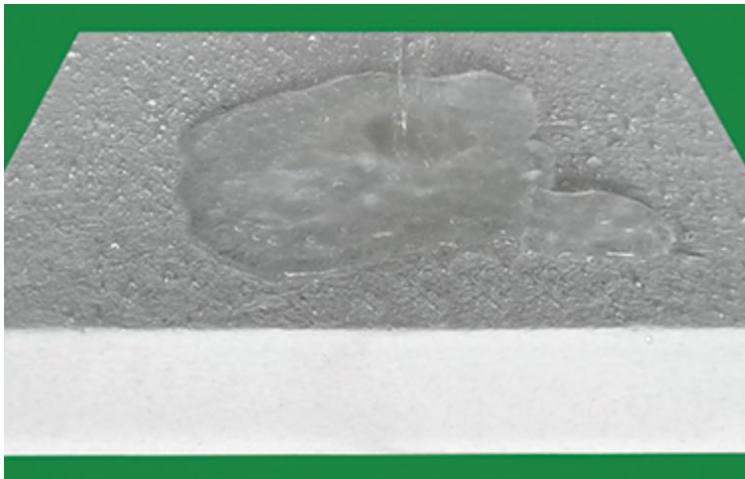
Classification temperature	1100 °C (2012°F)	1260 (2300°F)
Operation Temp(°C)(°F)	982 (1800°F)	1050 (1922°F)
Density (kg/m3)	64/ 96/ 128(4,6,8lb/ft3)	
Water content(%)	≤1	
Hydrophobicity(%)	≥99	
Shot Content(%)	≤15	≤15
Color	White	
Chemical Composition of refractory ceramic blanket (%)		
Al2O3	≥43	≥44
SiO2	≥52	≥52
ZrO2	-	-
Permanent Change on Heating (%), EN1094-1		
After 24 hours		
Ⓢ950 °C (1742°F)	≤-3	-
Ⓢ1000 °C (1832°F)	-	1.5
Ⓢ1100 °C (2012°F)	-	2.5
Ⓢ1200 °C (2192°F)	-	3
Ⓢ1300 °C (2372°F)	-	-
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 °C (392°F)	0.07	0.07
400 °C (752°F)	0.12	0.12
600 °C (1112 °F)	0.2	0.2
800 °C (1472°F)	0.35	0.3

1000°C (1832°F)	-	0.45
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Thickness mm	Density kg/m <sup>3</sup>				Length mm	Width mm
	64	96	128	160		
25	○	√	√	√	7320	610, 1220
38	○	√	√	√	4880	
50	○	√	√	-	3660	

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

### CCEWOOL® Water Repellent Ceramic Fiber Board



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

CCEWOOL® Water Repellent Ceramic Fiber Board is a kind of refractory ceramic fiber board which combines water proof, thermal insulation and fire resistance in one. We added a hydrophobic formula to the raw materials, and use full automatic production

line, 2 hours deep drying to dry the refractory ceramic fiber board completely which realizes the overall hydrophobicity for our refractory ceramic fiber board. The hydrophobicity of CCEWOOL® Water Repellent Ceramic Fiber Board under 200°C is above 99%.

CCEWOOL® Water Repellent Ceramic Fiber Board is specially developed for preventing the moisture in thermal insulation. It is especially suitable for fire protection, thermal insulation, sound insulation and noise reduction in marine and other high humidity environments. It greatly improves the thermal insulation performance of the fiber and prevented problems of thermal insulation performance reducing and thermal insulation layer corrosion caused by conventional refractory ceramic fiber board's moisture absorption.

**Characteristics:**

Good hydrophobic property, hydrophobic rate more than 98%;

Low thermal conductivity, non-combustible, moisture-proof, good sound absorption;

Good rigid property, high-strength, anti-vibration, corrosion;

Convenient construction, good stability, long useful life.

**Application:**

Widely used in shipping building, metallurgical machinery, petro-chemical industry;

Nuclear power, automobile;

Municipal heating system and building;

Wall composite and proof insulation;

Sound barrier;

Architectural soundproofing;

Marine (or Ships).

**TDS**

<b>CCEWOOL® Water Repellent Ceramic Fiber Board</b>		
Type(°C)	1100	1260
Permanent Linear Change on Heating (%)	950°Cx24h<=-2.5	1050°Cx24h<=-2
Theoretic Heat Conductivity Co-efficient (w/m.k) (800°C)	<=0.116	<=0.135
Theoretical density (kg/m3)	220	300
Water content (%)	<=1	
organic content (%)	<=6	
Hydrophobicity	>=98%	
Regular Size (mm)	1200x600mm Thickness: 25/50mm	
Package	Carton/Pallet	