CCEWOOL Thermomax Inc.
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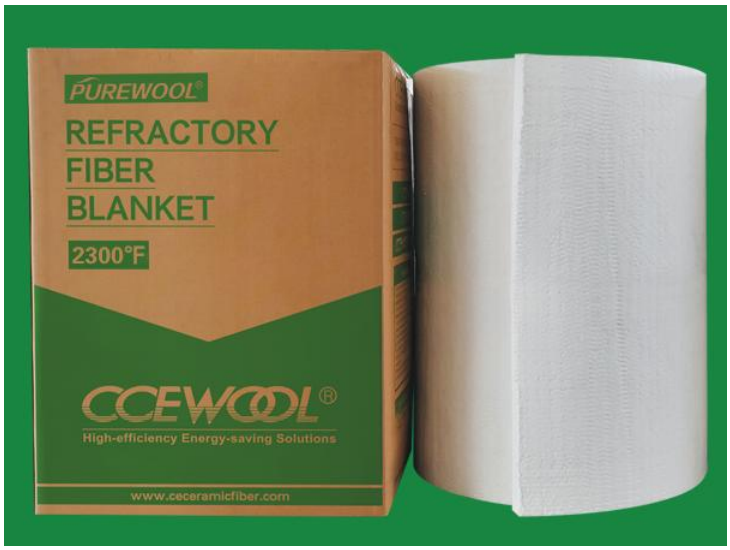
CCEWOOL® PUREWOOL® RCF Blanket for Fabrication



Temperature Grades 1260°C (2300°F) and 1430°C (2600°F)

CCEWOOL® PUREWOOL® RCF Blanket for Fabrication is a high-purity ceramic fiber blanket developed for demanding high-temperature engineering applications. The product is manufactured using high-purity synthetic raw materials including alumina, silica, and zirconia. Through optimized formulation and fiberization technology, the blanket achieves higher fiber purity, lower impurity levels, and a cleaner white fiber appearance. As a result, the material offers lower shrinkage, improved thermal insulation performance, and greater structural stability under high-temperature operating conditions.

Compared with conventional industrial-grade ceramic fiber blankets, PUREWOOL® RCF Blanket for Fabrication provides improved fiber length, structural uniformity, and mechanical strength. The blanket is produced using an extra-long spun fiber structure combined with double-sided internal needling, creating a stable three-dimensional interlocking fiber network throughout the material. This structure significantly enhances the tensile strength and overall structural integrity of the blanket, with tensile strength reaching up to 90 kPa.

CCEWOOL® PUREWOOL® RCF Blanket also offers excellent Fabrication compatibility. The material can be easily cut, layered, or structurally processed to meet specific engineering requirements for high-temperature insulation systems in industrial equipment. In addition, CCEWOOL® provides the blanket in a wide range of thicknesses, widths, and densities, allowing customers to select the most suitable configuration to improve energy efficiency and insulation performance in different industrial applications.

Characteristics:

Engineering-grade high-purity refractory ceramic fiber blanket;

High-purity synthetic raw materials with extremely low impurity content;

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Clean white fiber color and uniform fiber structure;

Ultra-long spun fiber structure;

Double-sided needle-punched reinforcement for enhanced structural stability;

High tensile strength (up to 90 kPa);

Low thermal conductivity with excellent insulation performance;

Low shrinkage at elevated temperatures;

Suitable for Fabrication and secondary processing.

Applications:

Suitable for high-temperature equipment where superior insulation performance and structural stability are required, including:

Industrial Furnaces and Kilns

Furnace lining insulation layers

Heat treatment furnace insulation systems

Combustion chamber insulation structures

Metallurgical Equipment

Reheating furnace linings

Furnace door sealing insulation

High-temperature pipeline insulation

Petrochemical Equipment

Process heater insulation systems

Piping and flue insulation

Other High-Temperature Equipment

Thermal insulation systems for industrial equipment

Furnace lining repair and reinforcement structures

STD：

CCEWOOL® PUREWOOL® RCF Blanket for Fabrication		
Classification temperature	1260(2300°F)	1430(2600°F)
Operation Temp(°C)(°F)	1100°C(2012°F)	1350°C(2462°F)

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Density (kg/m3)	96/ 128/ 160（6,8,10lb/ft3）	
Shot Content(%)	≤12	
Color	White	
Chemical Composition of refractory ceramic blanket (%)		
Al2O3	≥44	≥35
SiO2	≥55	≥49
ZrO2	-	≥15
Permanent Change on Heating (%), EN1094-1 After 24 hours		
®950°C (1742°F)	-	-
®1000°C (1832°F)	1.5	-
®1100°C (2012°F)	2	-
®1200°C (2192°F)	2.7	1
®1300°C (2372°F)	5.5	2
®1400°C (2552°F)		3
Tensile Strength(Kg/m3), EN1094-1 KPa		
64kg/m3(4lb/ft3)	-	-
96kg/m3(6lb/ft3)	60	60
128kg/m3(8lb/ft3)	90	90
160kg/m3(10lb/ft3)	130	130
Heat Conductive Co-efficient W/(m·k)(128kg/m3)		
200°C (392°F)	0.07	0.06
400°C (752°F)	0.12	0.1
600°C (1112°F)	0.2	0.15
800°C (1472°F)	0.3	0.2
1000°C (1832°F)	0.35	0.3

Thickness	**Density (kg/m3)**				**Length**	**Width**
mm	64	96	128	160	mm	mm

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

Thickness	**Density (lb/ft3)**				**Length**	**Width**
in	4#	6#	8#	10#	in	in
1/4”	-	-	○	○	300”	24”,48”
1/2”	-	√	√	○	600”	
3/4”	-	√	√	○	400”	
1”	○	√	√	√	300”	
3/2”	○	√	√	√	200”	
2”	○	√	√	-	150”	

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