

Rail - Tank Cars

From new construction to retrofitting, EcoFiber blankets are custom-specified and fire-resistant as required. In addition to thermal management and fire protection functions, EcoFiber blankets can also save up to 25% of material weight.



CCEWOOL® Low Biopersistent Fiber Blanket 2192



Temperature Grade 1200° C (2192° F)

CCEWOOL® Low Biopersistent Fiber

Blanket 2192 is made from alkaline earth silicate and is a calcium-magnesium insulating fiber. It is referred to as a soluble fiber because it has some solubility in bodily fluids. The introduction of MgO and CaO in soluble fibers enhances their flexibility,

elasticity, and provides excellent thermal and mechanical performance. CCEWOOL® Low Biopersistent Fiber Blanket 2192 exhibits outstanding chemical stability and is unaffected by most chemicals except for hydrofluoric acid, phosphoric acid, and concentrated alkalis. If it becomes wet or saturated with water or steam, its thermal and physical properties are not compromised. It's certified by Fraunhofer laboratory.

Characteristic:

Low thermal conductivity;

Low thermal storage;

High tensile strength;

Thermal shock resistance;



Lightweight;

Excellent corrosion resistance.

Application:

Reusable insulation for steam and gas turbines;

High-temperature kiln and furnace insulation;

Furnace door linings and seals;

Furnace repairs;

Boiler and incinerator linings;

Seals and gaskets;

Automotive heat shields;

Appliance insulation;

Fire protection;

Duct, stack and flue linings;

Molten metal splash protection.

TDS

CCEWOOL® Low Biopersistent Fiber Blanket 2192		
Classification Temperature (°C)(°F)	1200°C(2192°F)	
Chemical Composition (%)		
SiO ₂	65-68	
CaO	27-33	
MgO	2-7	
CaO+MgO	-	
Color	Light Bluish	
Shot Content (%)	≤12	
Density (kg/m ³)(4lb/ft ³)	96(6lb/ft ³)	128(8lb/ft ³)

Tensile Strength (kPa)	55	75
Permanent Linear Shrinkage (%)	1200°C x 24h ≤2.8	
Thermal Conductivity (W/m·K)		
200°C	0.05	0.04
400°C	0.09	0.08
600°C	0.19	0.15
800°C	0.3	0.2
1000°C	0.48	0.28
1200°C	0.69	0.49

Thickness	Density kg/m3			Length	Width
	mm	96	128		
mm	96	128	160	mm	mm
13	√	√	○	14640	610, 1220
19	√	√	○	9760	
25	√	√	√	7320	
38	√	√	√	4880	
50	√	√	-	3660	

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



CCEWOOL® Low Biopersistent Fiber Board 2372



Temperature grade 1300°C

(2372°F)

CCEWOOL® Low Biopersistent Fiber Board 2372 Pro is the latest development in soluble fiber products, made from a blend of soluble fiber cotton, organic, and

inorganic binders, forming a hard board. In use, Low Biopersistent Fiber Board maintains high compressive strength and low thermal conductivity, with physical properties remaining stable. It can withstand temperatures up to 1300°C (2372°F), providing stability to the entire refractory lining system. CCEWOOL® Low Biopersistent Fiber Board 2372 exhibits excellent chemical stability and can resist attack from most acids and corrosive agents, except hydrofluoric acid, phosphoric acid, and concentrated alkalis.

Characteristics:

High temperature stability;

Low thermal conductivity;

Resistance to thermal shock;

Good handling strength;

Easy to cut with standard tools.

Application:

Hot gas duct linings;

Rigid high temperature gaskets and seals;

Heat shields;

Shapes for domestic appliances;

Molten metal transfer systems.



TDS

CCEWOOL® Low Biopersistent Fiber Board 2372	
Classification Temperature (°C)	1300°C (2372°F)
Color	Light Bluish
Density (kg/m ³)	300
Modules of Rupture (MPa)	≥0.25
Compressive Strength (MPa, 10% relative deformation)	0.15
Loss of Ignition (%)	≤7
Permanent Linear Shrinkage (%)	1260°C x 24h ≤2.0
Thermal Conductivity (W/m·K)	
200°C	0.05
400°C	0.07
600°C	0.10
800°C	0.11
1000°C	0.14

