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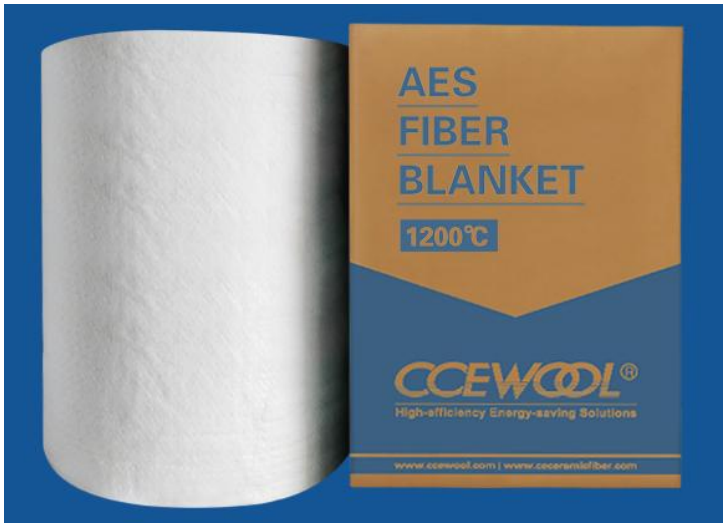
salesusa@ccewool.com
www.ccewool.com

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.

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TDS

CCEWOOL® Low Biopersistent Fiber Blanket 2192		
Classification Temperature	1200°C(2192°F)	
Chemical Composition (%)		
SiO2	62-68	
CaO	26-32	
MgO	4-7	
CaO+MgO	-	
Color	Light Bluish	
Shot Content (%)	≤12	
Density (kg/m³)(4lb/ft³)	96(6lb/ft³)	128(8lb/ft³)
Tensile Strength (kPa)	55	75
Permanent Linear Shrinkage (%)	1100℃ x 24h ≤1.0	
Thermal Conductivity (W/m·K)		
200°C	0.05	0.05
400°C	0.09	0.08
600°C	0.13	0.12
800°C	0.2	0.17
1000°C	0.28	0.25
1200°C	0.46	0.33

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

Thickness	Density (lb/ft³)			Length	Width
in	6#	8#	10#	in	in
1/2”	√	√	○	600”	24”,48”

3/4”	√	√	○	400”	
1”	√	√	√	300”	
3/2”	√	√	√	200”	
2”	√	√	-	150”	

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

CCEWOOL® Low Biopersistent Fiber Blanket 2372

Temperature Grade 1300°C (2372°F)
CCEWOOL® Low Biopersistent Fiber Blanket 2372 is the latest development in soluble fiber blankets, manufactured using proprietary fiberization technology, offering a classification temperature of 1300°C with a long-term usage temperature of up to 1200°C. CCEWOOL® Low Biopersistent Fiber Blanket 2372 has a slag content of less than 5%, and compared to traditional soluble fiber blankets, it has a fiber content exceeding 30%, resulting in lower thermal conductivity and superior tensile strength. It exhibits outstanding chemical stability and is unaffected by most chemicals except for hydrofluoric acid, phosphoric acid, and concentrated alkalis. It is an energy-saving solution that enhances application efficiency and reduces emissions. It’s certified by Fraunhofer laboratory.

Characteristics:
Slag ball content less than 5%, extremely low thermal conductivity;
Fiber content exceeding 30%;
Low heat storage;
High tensile strength;
Excellent thermal shock resistance;
Lightweight;
Outstanding corrosion resistance.

Application:
High-temperature furnace and kiln linings;
Furnace door linings and seals;
Boiler insulations;
Pipe and duct insulation;
Heat shields;
Seals and gaskets;
Carbon baking furnace covers;

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Glass tank crown insulation;
Expansion joints.

TDS

CCEWOOL® Low Biopersistent Fiber Blanket 2372		
Classification Temperature (°C)(°F)	1300°C(2372°F)	
Chemical Composition (%)		
SiO2	≥70	
CaO	-	
MgO	-	
CaO+MgO	≥20	
Color	Light Bluish	
Shot Content (%)	≤12	
Density (kg/m³)(4lb/ft³)	96(6lb/ft³)	128(8lb/ft³)
Tensile Strength (kPa)	55	75
Permanent Linear Shrinkage (%)	1300℃ x 24h ≤3.0	
Thermal Conductivity (W/m·K)		
200°C	0.05	0.04
400°C	0.1	0.08
600°C	0.18	0.14
800°C	0.3	0.22
1000°C	0.46	0.33
1200°C	0.68	0.46

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

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

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