

CCEWOOL® Low Biopersistent Fiber Wrap



Temperature Grade: 1200°C (2192°F),
1300°C (2372°F)

CCEWOOL® Low Biopersistent Fiber Wrap is a soluble fiber aluminum foil blanket mainly used in construction for fire-resistant insulation in areas such as fire protection ducts, exhaust pipes, and chimneys. It utilizes European standard aluminum foil with thin foil thickness and one-time bonding without the use of adhesives, ensuring it doesn't easily delaminate and maintains excellent

adhesion between CCEWOOL Low Biopersistent fiber blankets and aluminum foil. This product is known for its easy installation and durability.

CCEWOOL® Low Biopersistent Fiber Wrap exhibits outstanding chemical stability and is unaffected by most chemicals except hydrofluoric acid, phosphoric acid, and concentrated alkalis. If it becomes wet with water or steam, its thermal and physical performance remains unaffected after drying. It's certified by Fraunhofer Laboratory.

Characteristics:

- Lightweight and flexible product form
- Aluminum foil encapsulation
- Easy to cut, manufacture, wrap around pipes or cables
- Thin and single-layer design
- High-temperature resistance, biodegradable fibers

Applications:

Residential:

- Household appliances
- Self-cleaning ovens
- High-temperature commercial cooking equipment

Industrial:

- Chimney liners for thermal insulation
- Heat shields

Commercial Buildings:

- Prefabricated grease exhaust ducts
- Pre-insulated grease pipe maintenance doors
- Expansion joint seals
- Weld-through firestop packaging



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CCEWOOL® Low Biopersistent Fiber Wrap				
Classification Temperature (°C)(°F)	1200℃(2192°F)		1300℃(2372°F)	
Aluminum foil thickness (mm)	0.2			
Chemical Composition (%)				
SiO2	65-68		≥70	
CaO	27-33		-	
MgO	2-7		-	
CaO+MgO	-		≥20	
Color	Light Bluish		Light Bluish	
Shot Content (%)	≤12		≤12	
Density (kg/m³)(lb/ft³)	96 (6lb/ft³)	128 (8lb/ft³)	96 (6lb/ft³)	128 (8lb/ft³)
Tensile Strength (kPa)	55	75	55	75
Permanent Linear Shrinkage (%)	1200℃ x 24h ≤2.8		1300℃ x 24h ≤3.0	
Thermal Conductivity (W/m·K)				
200℃	0.05	0.04	0.05	0.04
400℃	0.09	0.08	0.1	0.08
600℃	0.19	0.15	0.18	0.14
800℃	0.3	0.2	0.3	0.22
1000℃	0.48	0.28	0.46	0.33
1200℃	0.69	0.49	0.68	0.46

CCEWOOL® Ceramic Fiber Wrap

Temperature Grade: 1260°C (2300°F), 1400°C (2550°F), 1430°C (2600°F)



CCEWOOL® Ceramic Fiber Wrap is a refractory ceramic fiber aluminum foil blanket primarily used in areas that require fire resistance and insulation in construction, such as fire protection ducts, exhaust pipes, and chimneys. It utilizes European standard aluminum foil with thin foil thickness and one-time bonding without the use of adhesives, making it less prone to delamination and ensuring good adhesion between CCEWOOL refractory ceramic fiber blankets and aluminum foil. This product features easy installation and durability.

CCEWOOL® Ceramic Fiber Wrap refractory ceramic fiber aluminum foil blankets can be customized to different sizes and bulk densities based on the specific requirements of the customer's application location.

Characteristics:

- Excellent chemical stability;
- Excellent thermal stability;
- Excellent tensile strength;
- Low thermal conductivity;
- Low heat capacity;
- Excellent insulation properties;
- Good sound insulation

Application:

- Cable bracket, duct
- Railroad oil tanker
- Vessel
- Vessel wall and board
- Expansion joint
- Structural steel panel
- Seals for fireproof door
- Electric circuit protection
- Chimney liner insulation
- General high temperature insulation, exhaust ducts of commercial and industrial application
- High temperature ventilation ducts, kitchen exhaust hoods and fume pipes, supply and exhaust air vents
- Fire protection, Ships engine rooms, exhaust chimneys

Air ventilation duct enclosure, through penetration fire stop systems

Electrical ducts, protection of electrical wiring

TDS

CCEWOOL® Ceramic Fiber Wrap				
Classification temperature	1260S (2300°F)	1260HPS (2300°F)	1400 (2550°F)	1430HZ (2600°F)
Operation Temp(°C)(°F)	1050 (1922°F)	1100 (2012°F)	1200℃ (2192°F)	1350℃ (2462°F)
Density (kg/m3)	64/ 96/ 128/160(4,6,8,10lb/ft3)			
Aluminum foil thickness (mm)	0.12			
Chemical Composition of refractory ceramic blanket (%)				
Al2O3	≥44	≥44	≥44	≥35
SiO2	≥52	≥55	≥50	≥49
ZrO2	-	-	≥5	≥15
Permanent Change on Heating (%), EN1094-1 After 24 hours				
®1000℃ (1832°F)	1.5	1.5	-	-
®1100℃ (2012°F)	2.5	2.2	1.5	-
®1200℃ (2192°F)	3	3	2	1
®1300℃ (2372°F)	-	-	3	2
®1400℃ (2552°F)	-	-	-	3
Tensile Strength(Kg/m3), EN1094-1 KPa				
64kg/m3(4lb/ft3)	35	45	45	-
96kg/m3(6lb/ft3)	55	65	65	65
128kg/m3(8lb/ft3)	75	85	85	85
160kg/m3(10lb/ft3)	110	125	125	125
Heat Conductive Co-efficient W/(m·k)(128kg/m3)				
200℃ (392°F)	0.07	0.06	0.06	0.06
400℃ (752°F)	0.10	0.10	0.10	0.10
600℃ (1112 °F)	0.18	0.17	0.16	0.15
800℃ (1472°F)	0.20	0.20	0.20	0.19

1000°C (1832°F)	0.27	0.26	0.26	0.26
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