

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°C(2192°F)		1300°C(2372°F)	
Aluminum foil thickness (mm)	0.12			
Chemical Composition (%)				
SiO ₂	65-68		≥70	
CaO	27-33		-	
MgO	2-7		-	
CaO+MgO	-		≥20	
Color	Light Bluish		Light Bluish	
Shot Content (%)	≤12		≤12	
Density (kg/m ³)(lb/ft ³)	96	128	96	128
	(6lb/ft ³)	(8lb/ft ³)	(6lb/ft ³)	(8lb/ft ³)
Tensile Strength (kPa)	55	75	55	75

Permanent Linear Shrinkage (%)	1200°C x 24h ≤2.8		1300°C x 24h ≤3.0	
Thermal Conductivity (W/m·K)				
200°C	0.05	0.04	0.05	0.04
400°C	0.09	0.08	0.1	0.08
600°C	0.19	0.15	0.18	0.14
800°C	0.3	0.2	0.3	0.22
1000°C	0.48	0.28	0.46	0.33
1200°C	0.69	0.49	0.68	0.46

