CCEWOOL Thermomax Inc.
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CCEWOOL® Low Biopersistent Fiber Module

Temperature Grades: 1200℃ (2192℉), 1300℃(2372℉)

CCEWOOL® Low Biopersistent Fiber Module is compressed from soluble fiber blankets. Low Biopersistent Fiber products are innovative solutions for high-temperature applications. Based on the unique characteristics of its calcium-magnesium chemical composition, it can meet the requirements of use up to 1300°C (2372°F) while also exhibiting significant solubility and environmental properties. This module is designed to meet the insulation needs of industrial furnaces under specific thermal conditions. The bio-soluble fiber modules are produced with various anchoring systems for quick, easy, and efficient installation in most furnace linings. Module linings can improve furnace productivity and reduce maintenance costs.

Characteristics:

High temperature stability (up to 1300° C);

Low thermal conductivity;

Thermal shock resistance;

Low heat storage;

Lightweight;

Fast installation & selection of attachment systems.

Application:

Heat treatment and forge furnaces;

Annealing furnaces;

Process heaters;

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Ceramic tunnel kilns and Intermittent kilns;

Stress relieving furnaces;

Door and cover linings;

Carbottom heating furnaces;

Stack, flue and duct linings;

Incinerators and boilers;

Ladle preheat stands.

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CCEWOOL® Low Biopersistent Fiber Module		
Classification Temperature (℃)(℉)	1200℃(2192℉)	1300℃(2372℉)
Chemical Composition (%)		
SiO2	65-68	≥70
CaO	27-33	-
MgO	2-7	-
CaO+MgO	-	≥20
Color	Light Bluish	Light Bluish
Density (kg/m³)(lb/ft³)	160-220(10-13.75)	160-220(10-13.75)
Permanent Linear Shrinkage (%)	1200℃ x 24h ≤2.8	1300℃ x 24h ≤3.0
Thermal Conductivity (W/m·K)		
400℃	0.07	0.07
600℃	0.12	0.13
800℃	0.19	0.2
1000℃	0.26	0.3
1200℃	0.38	0.41