

CCEWOOL® Superbloc® Module



Temperature Grades: 1316°C (2400°F), 1430°C (2600°F)

CCEWOOL® Superbloc® Module is a monolithic ceramic fiber module manufactured from high-purity synthetic ceramic fiber materials using a continuous automated production process. Unlike conventional folded ceramic fiber modules, the Superbloc® Module is designed with a solid block structure, forming a fully integrated fiber body during

manufacturing without layered folding or stacked fiber arrangements. This design significantly improves the structural integrity and long-term stability of the module.

CCEWOOL® Superbloc® Modules are installed using specially designed anchoring systems and installation tools that ensure strong compression between adjacent modules. The installation process is simple and efficient, while the anchoring system provides secure positioning and structural safety. Once installed, the modules form a continuous furnace lining structure, improving the overall sealing performance of the furnace insulation system.

Compared with traditional folded ceramic fiber modules, CCEWOOL® Superbloc® Modules maintain a more stable structure under high-temperature operating conditions. The monolithic design provides enhanced resistance to mechanical stress and high-velocity gas flow, making it particularly suitable for furnace areas exposed to severe operating conditions. As a result, Superbloc® Modules represent a high-performance furnace lining solution for advanced industrial insulation systems.

Characteristics:

Monolithic Block Structure;

Multi-Directional Compression Structure;

Low Shrinkage at High Temperatures;



Excellent Resistance to High-Velocity Gas Flow;

Low Heat Storage;

Excellent Thermal Shock Resistance;

Binder-Free Structure.

Application:

High-temperature furnace insulation systems;

Surface insulation for industrial kilns and furnaces;

Fire protection materials for multi-zone furnace systems;

Back-up insulation in petrochemical, chemical, and metallurgical furnaces;

High-temperature sintering saggars;

High-temperature sealing for machinery and precision molds.

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CCEWOOL® Superbloc® module						
Description	Superbloc® Module 24			Superbloc® Module 26		
Classification Temperature (°C)	1316(2400°F)			1430(2600°F)		
Color	White			White		
Shot Content (%)	≤10			≤10		
Density (kg/m ³)	160	192	240	160	192	240
Permanent Linear Shrinkage (%)	1200°Cx24h≤3			1400°Cx24h≤3		
Thermal Conductivity (W/m-K)						
400°C	≤0.09			≤0.09		
600°C	≤0.14			≤0.14		
800°C	≤0.20			≤0.20		
1000°C	-			≤0.28		
Standard Size (mm)	Length	305 (12")				
	Width	305 (12")				
	Thickness	76-305 (3"-12")				