CCEWOOL Thermomax Inc.
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www.ccewool.com

CCEWOOL® 1500MX Fiber Module

Temperature Grade 1500°C (2732°F)

CCEWOOL® 1500MX Fiber Module is a high-performance composite refractory fiber product manufactured using a specialized microcrystalline process. Through targeted optimization of fiber composition and crystal phase structure, the module delivers lower long-term shrinkage, more stable thermal performance, and stronger structural integrity under sustained high-temperature operation.

Its temperature resistance falls between zirconia-containing ceramic fiber and alumina fiber, offering significantly better performance than conventional chromium-containing fibers, while remaining substantially more cost-effective than alumina fiber modules. This makes it a high-temperature insulation solution that balances performance and economy.

CCEWOOL® 1500MX Fiber Module is designed for industrial furnaces operating continuously at 1250–1350°C, with particularly strong performance in high-temperature forging furnaces, where it helps extend lining service life and reduce overall energy consumption.

Characteristics:

Extremely low thermal conductivity;

low high-temperature shrinkage;

higher heat resistance;

improved thermal stability;

enhanced thermal shock resistance;

Stable chemical properties and strong corrosion resistance.

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Application:

CCEWOOL® 1500MX Fiber Module is designed for high-temperature industrial equipment operating continuously at 1250–1350°C. Typical applications include:

1. High-Temperature Forging Furnaces

Long-cycle heat treatment furnaces

Rapid heat-up forging furnaces

Furnaces requiring stable thermal fields and strong thermal shock resistance

2. Steel and Metallurgical Furnace Linings

Billet reheating furnaces

Billet holding furnaces

Quenching and heat treatment furnaces

3. High-Temperature Equipment in Petrochemical and Mechanical Industries

Prefabricated industrial furnaces

Combustion chambers and high-temperature flues

Hot-face insulation layers for process heating equipment

4. Cost-Effective Alternative to Chromium-Containing Fibers

Ideal for users seeking reduced cost while maintaining high-temperature stability and low shrinkage.

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CCEWOOL® 1500MX Fiber Module	
Classification Temperature (℃)	1500(2732℉)
Continuous Temperature Use Limit (℃)	≤1350(2462℉)
Density (kg/m3)	192 (12lb/ft3)
Shot Content (Φ≥0.212mm) (%)	≤10
Permanent Linear Shrinkage (%)	
1450℃x24h	≤1 (Classical numerical: 0.4%)
1500℃x24h	≤2 (Classical numerical: 1.0%)
Thermal Conductivity (W/m·K)	
200℃	0.056

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300℃	0.074
400℃	0.096
500℃	0.122
600℃	0.130
800℃	0.240
1000℃	0.330