

CCEWOOL® 1900 Back-Up Board for Fabrication



Temperature Grades 1900°F (1050°C),
2100°F (1150°C)

CCEWOOL® 1900 Back-Up Board for Fabrication is a high-performance ceramic fiber board specifically designed for backup insulation layers in industrial furnace lining systems. The product is manufactured using high-purity aluminosilicate ceramic fiber wool combined with selected refractory raw materials. Produced on a fully automated

continuous production line, a small amount of binder is added during processing, and the material is formed into rigid boards through pressing, curing, and precision cutting processes.

Compared with conventional industrial-grade fiber boards, CCEWOOL® 1900 Back-Up Board for Fabrication features a more uniform fiber distribution and enhanced structural stability, enabling more reliable thermal insulation performance in furnace lining systems. As a backup insulation material within multilayer furnace linings, the board offers low thermal conductivity and low heat storage capacity, effectively reducing furnace heat loss, improving thermal efficiency, lowering overall lining weight, and enhancing structural stability.

The board has a uniform structure, smooth surface, and precise dimensional tolerances, providing good mechanical strength and excellent thermal shock resistance. It is suitable for a wide range of backup insulation applications in industrial furnace systems.

In addition, the material provides excellent Fabrication compatibility. The board can be easily cut, drilled, and mechanically machined, and CCEWOOL® also offers Fabrication customization services, including custom dimensions, thicknesses, and complex-shaped components. This allows the product to be adapted to various furnace designs and engineering requirements in high-temperature industrial equipment.

Characteristics:

Engineering-grade furnace back-up insulation board;

Excellent thermal stability and thermal shock resistance;
 Low thermal conductivity and low heat storage;
 Lightweight structure, reducing furnace load;
 Good mechanical strength and compressive resistance;
 Excellent moisture resistance and corrosion resistance;
 Uniform structure with precise dimensional tolerance;
 Easy Fabrication, machining, and installation.

Applications:

Primarily used as a back-up insulation layer in industrial furnace lining systems, including:

Industrial Kilns and Furnaces

- Cement kiln back-up insulation
- Ceramic kiln back-up insulation
- Glass furnace wall and back-up insulation

Heat Treatment Equipment

- Heat treatment furnace back-up insulation
- Electric furnace insulation layers

Metallurgical and Petrochemical Equipment

- Metallurgical furnace back-up insulation
- Petrochemical process heater insulation layers

Other High-Temperature Equipment

- Back-up insulation for high-temperature reaction equipment
- Thermal insulation structures for high-temperature pipelines and equipment

STD:

CCEWOOL® 1900 Back-Up Board for Fabrication		
Classification Temperature	1900°F (1050°C)	2100°F (1150°C)
Continuous Temperature Use Limit (°C)	1750°F (950°C)	1850°F (1000°C)
Color	White	White
Modulus of Rupture (MPa)	≥0.3	≥0.3

Compressive Strength (MPa, 10% relative deformation)	≥0.1	≥0.2
Loss on Ignition (%)	≤7	≤7
Permanent Linear Shrinkage (%)	950°Cx24h≤2.0	1000°Cx24h≤2.0
Thermal Conductivity (W/m·K)		
800°C	≤0.116	-
1000°C	--	≤0.135

