

## CCEWOOL® LTC Fiber Board



Temperature Grade: 1260°C (2300°F),  
1400°C (2552°F)

Chemical Composition: Alumina, Silica,  
(Zirconia)

CCEWOOL® LTC Fiber Board is  
independently developed by  
CCEWOOL® by combining a ceramic

fiber system with micro-/nano-structural control and infrared opacification technology. This significantly reduces overall heat transfer at high temperatures. Compared with conventional lightweight refractory insulation materials, its insulation efficiency can be approximately 1.2–1.5 times higher, helping reduce heat loss at the same insulation thickness.

While providing ultra-low thermal conductivity, CCEWOOL® LTC Fiber Board maintains good structural strength and dimensional stability. Its consistent board structure and good machinability also make it suitable for Fabrication processing, including cutting, drilling, grooving, and assembly, especially for insulation systems requiring precise fitting and reliable installation.

With stable ultra-low thermal conductivity, reliable structural performance, and good Fabrication adaptability, CCEWOOL® LTC Fiber Board provides a more efficient and flexible material solution for high-temperature equipment and energy-saving insulation upgrades.

### Characteristics:

- Ultra-low thermal conductivity;
- Low heat storage;
- High tensile strength;
- Excellent thermal shock resistance;
- Excellent corrosion resistance;

Lightweight and easy to install;

Excellent chemical stability.

#### Applications:

Refractory linings;

Backup insulation behind dense refractories;

Backup insulation behind refractory bricks and castables;

Hot-face linings for ceramic kilns, box furnaces, and petrochemical furnaces;

Industrial heat-treatment equipment;

Rigid high-temperature gaskets;

High-temperature protective covers;

Flue and chimney insulation linings;

Molten metal vessel covers;

Hot-gas duct linings;

Expansion joints;

Industrial insulation covers and insulation layers;

Industrial combustion chambers;

Light-industrial combustion chambers.

#### TDS

| CCEWOOL® LTC Fiber Board                      |                                                                     |                    |
|-----------------------------------------------|---------------------------------------------------------------------|--------------------|
| Product Name                                  | 2300 LTC                                                            | 2550 LTC           |
| Classification Temperature                    | 1260°C(2300°F)                                                      | 1400°C(2550°F)     |
| Theoretical Bulk Density (Kg/m <sup>3</sup> ) | 300                                                                 | 320                |
| Cold Compressive Strength (MPa)               | ≥0.15                                                               |                    |
| Compressive Strength After Heating (MPa)      | ≥0.1                                                                |                    |
| Permanent Linear Change After Heating (%)     | ≤3(1050°C×24h)                                                      | ≤3(1200°C×24h)     |
| Thermal Conductivity W/(m·K)                  | 0.09(Average 500°C)                                                 | 0.1(Average 600°C) |
| Regular Size (L×W×T)mm                        | 900×600×25/50mm (35"×24"×1"/2")<br>1200×600×25/50mm (47"×24"×1"/2") |                    |