

## CCEWOOL® PUREWOOL® Ceramic Fiber Board for Fabrication



Classification Temperature: 1260°C (2300°F),  
1430°C (2600°F)

Chemical Composition: Alumina, Silica,  
(Zirconia)

CCEWOOL® PUREWOOL® Ceramic Fiber Board for Fabrication is a high-purity rigid insulation board developed for high-temperature engineering and customized Fabrication applications. It is made from high-purity synthetic alumina, silica, and

zirconia raw materials. High-quality ceramic fiber is produced through an optimized fiberization process, then combined with a selected bonding system and processed by pressing, curing, and precision cutting.

Compared with conventional industrial ceramic fiber boards, the PUREWOOL® series is further optimized in raw material purity, fiber length, and structural uniformity. This provides better structural stability, lower shrinkage, and more reliable long-term performance at elevated temperatures. The uniform board structure also improves insulation performance, consistency, and machining accuracy for customized components.

CCEWOOL® PUREWOOL® Ceramic Fiber Board for Fabrication features a uniform structure, flat surface, and accurate dimensions. It is specifically developed for customized Fabrication applications, including shaped insulation boards and integrated structural components for high-temperature equipment. Customized dimensions, thicknesses, and shapes can be produced according to equipment structures or engineering drawings.

With its high-purity raw material system, stable high-temperature performance, and strong customization adaptability, CCEWOOL® PUREWOOL® Ceramic Fiber Board for Fabrication provides a reliable customized insulation solution for high-temperature industrial equipment.

**Characteristics:**

Engineering-grade high-purity ceramic fiber board;  
High-purity raw materials with low impurity content;  
Excellent high-temperature stability;  
Excellent mechanical strength and structural rigidity;  
Low thermal conductivity and excellent thermal insulation;  
Low heat storage for improved thermal efficiency;  
Excellent thermal shock resistance;  
Flat surface and accurate dimensions;  
Excellent Fabrication performance.

**Applications:**

Suitable for industrial equipment requiring high-temperature stability and structural strength, including:  
Industrial furnaces and kilns;  
Furnace lining structural boards;  
Combustion chamber insulation boards;  
Furnace door insulation structures;  
Heat-treatment equipment;  
Heat-treatment furnace insulation systems;  
Structural insulation components for high-temperature equipment;  
Petrochemical equipment;  
Process heater insulation structures;  
High-temperature pipeline and flue insulation;  
Equipment structural components;  
Furnace lining components;  
High-temperature fire barriers;  
Equipment insulation assemblies.

**TDS**

| CCEWOOL® PUREWOOL® Ceramic Fiber Board for Fabrication |                |                |
|--------------------------------------------------------|----------------|----------------|
| Classification temperature                             | 1260(2300°F)   | 1430(2600°F)   |
| Operation Temp(°C)(°F)                                 | 1100°C(2012°F) | 1350°C(2462°F) |
| Density (kg/m3)                                        | 250/ 300/ 360  |                |
| Color                                                  | white          |                |
| Loss of Ignition (%)                                   | ≤6             |                |
| Permanent Linear Shrinkage (%)                         | 1100°Cx24h≤3.0 |                |
| Modules of Rupture (MPa)                               | ≥0.3           |                |
| Chemical Composition of refractory ceramic blanket (%) |                |                |
| Al2O3                                                  | ≥44            | ≥35            |
| SiO2                                                   | ≥55            | ≥49            |
| ZrO2                                                   | -              | ≥15            |
| Compressive Strength (MPa,10% relative deformation)    |                |                |
| 300kg/m3                                               | ≥0.25          |                |
| 360kg/m3                                               | ≥0.3           |                |
| Thermal Conductivity (w/m.k)                           |                |                |
| 400°C (752°F)                                          | 0.07           | 0.07           |
| 600°C (1112 °F)                                        | 0.1            | 0.1            |
| 800°C (1472°F)                                         | 0.14           | 0.13           |
| 1000°C (1832°F)                                        | 0.19           | 0.18           |