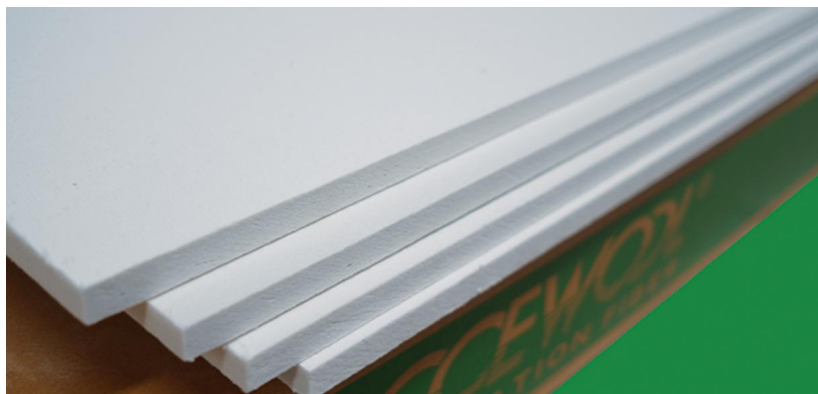


CCEWOOL® Ceramic Fiber Board



Classification Temperature: 1100°C (2012°F), 1260°C (2300°F), 1400°C (2552°F), 1430°C (2600°F)

Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Ceramic Fiber Board is manufactured from our own high-purity refractory ceramic fiber bulk using a

vacuum-forming process followed by a two-hour rapid drying process. This ensures uniform fiber distribution, consistent density, and good compressive strength, providing excellent thermal insulation and structural stability at high temperatures, with good resistance to high-velocity gas flow, mechanical vibration, and impact.

Depending on application requirements, CCEWOOL® Ceramic Fiber Board is available in organic and inorganic smoke-free grades. For organic grades, the organic components burn out completely during initial heating at approximately 230–315°C (450–600°F) without affecting refractory or insulation performance. If exposed to water, steam, or oil during installation or service, the board can recover stable physical and thermal properties after thorough drying.

With its stable structure, dimensional consistency, and excellent machinability, CCEWOOL® Ceramic Fiber Board is suitable for both standard insulation and Fabrication processing. It can be cut, grooved, drilled, beveled, and custom-machined according to customer drawings for shaped components, composite insulation structures, and customized high-temperature parts.

With excellent thermal insulation, thermal shock resistance, abrasion resistance, chemical corrosion resistance, and machinability, CCEWOOL® Ceramic Fiber Board is widely used in industrial furnaces, ovens, boilers, pipelines, chimneys, and other high-temperature equipment.

Characteristics:

Excellent compressive strength;
Low thermal conductivity;
High-temperature stability;
Excellent thermal shock resistance;
High mechanical strength;
Excellent machinability;
Excellent chemical stability;
Lightweight and low heat storage;
Chemical corrosion resistance;
Excellent gas erosion resistance and long service life;
Good sound insulation;
Uniform structure and easy machining;
Accurate dimensions and good flatness.

Applications:

Steel Industry: Heat-treatment furnace linings, expansion joints, backup insulation, thermal insulation layers, mold insulation, and backup insulation for ladles, tundishes, molten steel ladles, and refining ladles.

Non-Ferrous Metal Industry: Tundishes, trough covers, and refractory brick backup insulation for aluminum electrolytic cells.

Ceramics Industry: Lightweight kiln cars, kiln hot-face linings, temperature-zone partitions, and fire barriers.

Glass Industry: Furnace backup insulation and burner blocks.

Heat-Treatment Industry: Linings for furnace walls, doors, roofs, and other high-temperature areas.

Furnace Construction: Hot-face refractories, backup insulation behind dense refractories, and expansion joints.

Light Industry: Combustion chamber linings for industrial and domestic boilers.

Petrochemical Industry: Hot-face linings for high-temperature process heaters.

Cement & Building Materials: Furnace and kiln backup insulation linings..

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CCEWOOL® Ceramic Fiber Board

Classification Temperature	1100°C (2012°F)	1260°C (2300°F)	1260°C (2300°F)	1400°C (2550°F)	1430°C (2600°F)
Operation Temperature	950°C (1742°F)	1050°C (1922°F)	1100°C (2012°F)	1200°C (2192°F)	1350°C (2462°F)
Color	white				
Loss of Ignition (%)	≤6				
Permanent Linear Shrinkage (%)	950°Cx24h≤ 2.0	1050°Cx24h≤3. 0	1050°Cx24h≤3. 0	1200°Cx24h≤3. 5	1350°Cx24h≤3. 5
Modules of Rupture (MPa)	≥0.3				
Compressive Strength (MPa,10% relative deformation)					
250kg/m3	≥0.15				
300kg/m3	≥0.25				
360kg/m3	≥0.3				
Thermal Conductivity (w/m.k)					
400°C	0.09	0.08	0.07	0.07	0.07
600°C	0.11	0.11	0.1	0.1	0.1
800°C	0.15	0.14	0.13	0.13	0.13
1000°C	0.2	0.19	0.17	0.19	0.18
Chemical Composition (%)					
Al2O3	≥44	≥44	≥44	≥44	≥35
SiO2	≥52	≥52	≥55	≥50	≥49
ZrO2	-	-	-	≥5	≥15
Package	Carton box or pallet				

CCEWOOL® Ceramic Fiber Board	
Thickness (mm)	20.25.50.80.100
Size (mm)	1200×1000 or customized size