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.

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

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..

TDS

CCEWOOL® Ceramic Fiber Board

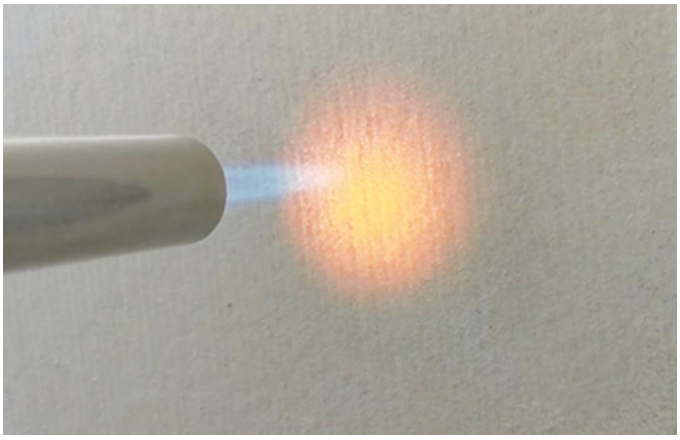
Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

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

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

CCEWOOL® Inorganic Ceramic Fiber Board



Classification Temperature: 1260°C (2300°F)
Chemical Composition: Alumina, Silica

CCEWOOL® Inorganic Ceramic Fiber Board is made from high-purity ceramic fiber bulk using our self-developed production line and an inorganic bonding system. It contains no organic binders and provides both environmental compatibility and stable high-temperature performance. Compared with conventional ceramic fiber board, it produces no smoke, odor, or blackening during high-temperature service while maintaining good mechanical strength and thermal stability, even under long-term or demanding operating conditions.

Thanks to its clean inorganic system and stable board structure, CCEWOOL® Inorganic Ceramic Fiber Board is suitable not only for standard insulation applications but also for Fabrication processing. It can be cut, grooved, drilled, beveled, and machined into custom shapes according to customer drawings for shaped components, composite insulation structures, and customized high-temperature parts. This makes it well suited to electrical heating equipment and complex structures requiring good processability, consistency, and cleanliness.

CCEWOOL® Inorganic Ceramic Fiber Board and shaped components are designed for smoke-free heating equipment such as electric furnaces, wall-mounted boilers, ovens, and hot-air ducts. They are widely used in household appliances and industrial electric heating systems, providing clean, stable, and reliable thermal insulation.

Characteristics:

No organic binders;
Low thermal conductivity and excellent thermal insulation;
High compressive strength;

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

Corrosion-resistant, moisture-resistant, and mold-resistant;
Excellent thermal stability and impact resistance;
Easy to form, cut, and install;
Machinable into complex shapes;
Accurate dimensions and excellent flatness;
Long service life.

Applications:

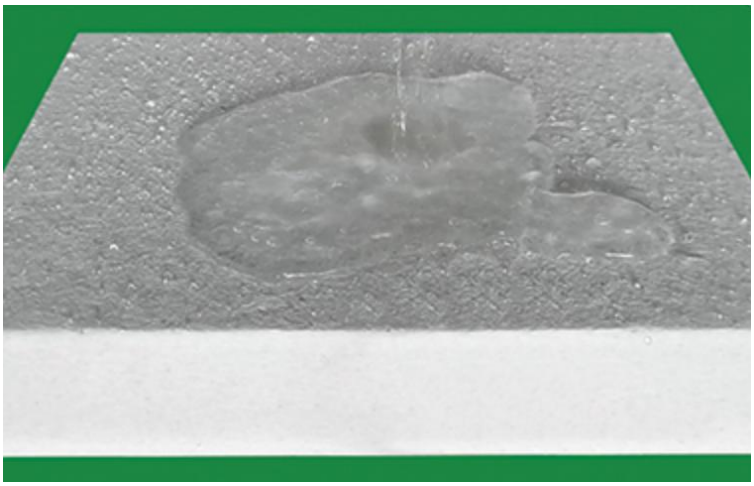
Electric furnaces and laboratory furnaces;
Residential wall-mounted boilers and electric heating equipment;
Ovens and drying ovens;
Combustion chamber structures;
Diffusion furnaces;
Flue and exhaust duct linings;
Furnace components;
Components in contact with molten metal;
Thermal shields;
High-temperature gaskets and seals;
Hot-top covers for superalloy casting;
Semiconductor processing equipment.

TDS

CCEWOOL® Inorganic Ceramic Fiber Board	
Classification Temperature	1260°C(2300°F)
Density (kg/m3)	320/360
Loss on ignition (%)	≤ 2
Normal temperature compressive strength (MPa)	≥0.15
Post-Firing Compressive Strength (MPa)	≥0.15
Surface Hardness (Hc)	≥60

Thermal Conductivity (W/m-K)	≤0.135 (500°C)
Common Specifications and Dimensions (mm)	900×600×20-50 (47”×24”×4/5”-2”)

CCEWOOL® Water-Repellent Ceramic Fiber Board



Classification Temperature: 1100°C (2012° F), 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Water-Repellent Ceramic Fiber Board is a high-performance ceramic fiber board combining water resistance, thermal insulation, and fire resistance. It is specially designed for insulation systems exposed to high humidity, water ingress, or condensation. A stable water-repellent formulation is introduced into the ceramic fiber raw material system, and the board is formed on a fully automated continuous production line. After approximately two hours of deep and uniform drying, the water-repellent performance penetrates throughout the fiber structure, creating integral water repellency rather than surface-only protection.

At operating temperatures below 200°C, CCEWOOL® Water-Repellent Ceramic Fiber Board can maintain a water repellency rate above 99%, effectively reducing moisture absorption and helping prevent increased thermal conductivity, insulation degradation, and fiber structure corrosion caused by moisture. Compared with conventional ceramic fiber board, it provides more reliable thermal stability and longer service life under humid conditions.

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

CCEWOOL® Water-Repellent Ceramic Fiber Board is particularly suitable for offshore platforms, coastal facilities, and other high-humidity environments. It can be used for fire protection, equipment insulation, thermal and fire insulation, and sound insulation applications requiring long-term system stability and durability.

Characteristics:

Excellent water repellency, with a water repellency rate above 99%;
Excellent low thermal conductivity and moisture resistance;
High strength and vibration resistance;
Excellent corrosion resistance;
Easy installation, good stability, and long service life.

Applications:

Fire-resistant compartments and deck insulation for ships;
Equipment insulation systems on offshore oil and gas platforms;
External insulation for chemical storage tanks and pipelines;
Moisture-resistant insulation for electrical cabinets, heating equipment, and steam systems.

TDS

CCEWOOL® Water-Repellent Ceramic Fiber Board		
Type(°C)	1100	1260
Permanent Linear Change on Heating (%)	950°Cx24h<=-2.5	1050°Cx24h<=-2
Theoretic Heat Conductivity Co-efficient (w/m.k) (800°C)	<=0.116	<=0.135
Theoretical density (kg/m3)	220	300
Water content (%)	<=1	
organic content (%)	<=6	
Hydrophobicity	>=98%	

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

Regular Size (mm)	1200x600mm (47”x24”) Thickness: 25/50mm (1”/2”)
Package	Carton/Pallet

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.

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

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.

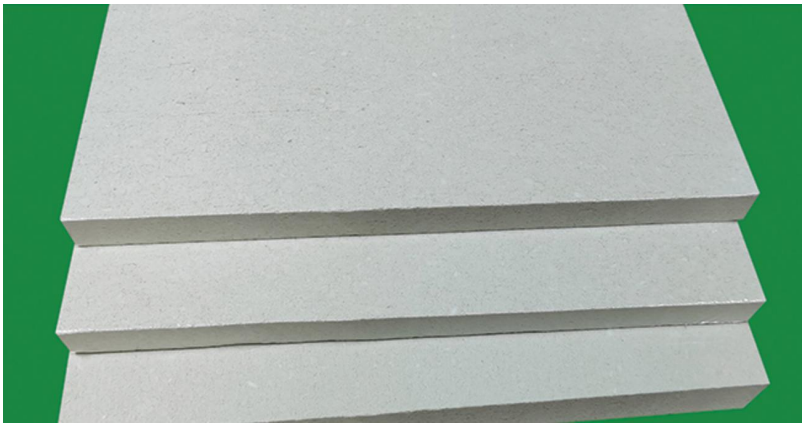
TDS

CCEWOOL® LTC Fiber Board		
Product Name	2300 LTC	2550 LTC
Classification Temperature	1260°C(2300°F)	1400°C(2550°F)
Theoretical Bulk Density (Kg/m3)	300	320

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

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(Average600°C)
Regular Size (L×W×T)mm	900×600×25/50mm (35"*24"*1"/2") 1200×600×25/50mm (47"*24"*1"/2")	

CCEWOOL® Super Duty Ceramic Fiber Board



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Super Duty Ceramic Fiber Board is a high-performance refractory insulation board designed for high-strength and heavy-load applications. It is manufactured from high-purity refractory ceramic fiber bulk using automated forming and high-temperature curing processes, providing significantly improved mechanical strength and load-bearing capacity while maintaining low thermal conductivity and excellent insulation performance.

At room temperature, the board can withstand loads up to 80 t/m², and under high-temperature operating conditions it can still support loads of ≥40 t/m². Its compressive strength is significantly higher than that of conventional ceramic fiber board, helping maintain structural integrity and dimensional stability under long-term high-temperature, heavy-load, and mechanical stress conditions.

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

CCEWOOL® Super Duty Ceramic Fiber Board is particularly suitable for furnace bottoms, heavy-duty furnace linings, and load-bearing insulation layers where both thermal insulation and structural support are required.

Characteristics:

Excellent load-bearing capacity;
Excellent thermal stability;
Excellent thermal shock resistance;
Low thermal conductivity;
Low heat storage;
Easy to machine, cut, and form.

Applications:

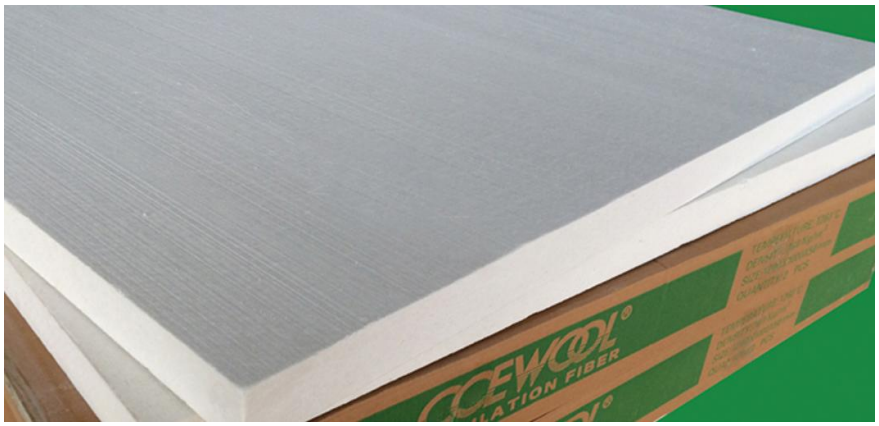
Backup insulation for ladles, tundishes, torpedo cars, and iron runners;
Load-bearing insulation for kiln cars;
Load-bearing insulation at the bottom of aluminum electrolytic cells;
Bottom tube cover plates for reformers;
High-temperature flange gaskets for heat-treatment furnaces.

TDS

CCEWOOL® Super Duty RCF Board		
Description	600 Super Duty Board	900 Super Duty Board
Density (kg/m*)	600	900
Modules of Rupture (MPa)	≥2.0 Before Firing	≥4.0 Before Firing
	≥0.8 Afer Firing	≥1.2 Afer Firing
Compressive Strength	≥0.8 Before Firing	≥4.0 Before Firing
(MPa,10% relative deformation)	≥0.4 Afer Firing	≥2.5 Afer Firing
Permanent Linear Shrinkage (%)	1100°CX24h≤3.0	1100°CX24h≤3.0
Thermal Conductivity (W/m·K)		
300°C	0.08	0.12
400°C	0.09	0.13
500°C	0.1	0.14

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

CCEWOOL® Large Size Ceramic Fiber Board for Fabrication



Classification Temperature: 1260° C (2300°F), 1400°C (2550°F), 1430°C (2600°F)
Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Large Size Ceramic Fiber Board for Fabrication is a high-temperature board developed for large-size customized insulation and fire-protection structures. It is not simply an enlarged standard board, but a Fabrication-oriented product designed for fire doors, furnace door linings, industrial insulation enclosures, and other large non-standard structures requiring better integrity, dimensional accuracy, and installation stability.

The board is manufactured on a fully automated continuous production line using high-purity raw materials and vacuum-forming technology. This ensures uniform fiber structure and consistent bulk density while maintaining good flatness and structural stability at large dimensions. A single board can reach up to 1.8 m in width and 3 m in length, significantly reducing joints, thermal bridges, and installation errors associated with multi-piece assemblies.

As a Fabrication product, CCEWOOL® Large Size Ceramic Fiber Board is well suited for large-area, integrated insulation and fire-protection structures. Compared with conventional multi-board assembly, it helps improve installation efficiency, reduce joint treatment, and enhance the overall appearance and long-term stability of the finished structure.

Under high-temperature service and thermal cycling, the board provides good thermal shock and spalling resistance, helping maintain stable insulation performance and structural integrity over long-term use.

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

Characteristics:

Ultra-large dimensions;

Accurate dimensions and good flatness;

Excellent fire resistance;

Excellent compressive strength;

Low thermal conductivity;

High-temperature stability;

Excellent thermal shock resistance;

High mechanical strength;

Good machinability;

Chemical corrosion resistance;

Good sound insulation;

Uniform structure and easy processing.

Applications:

Fire door manufacturing

Industrial furnace door and roof linings

Heat-treatment equipment and insulated furnace structures.

TDS

CCEWOOL® Large Size Ceramic Fiber Board for Fabrication				
Classification Temperature	1260°C(2300°F)	1260°C (2300°F)	1400°C (2550°F)	1430°C (2600°F)
Operation Temperature	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 (%)	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)				

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

300kg/m3	≥0.25			
360kg/m3	≥0.3			
Thermal Conductivity (w/m.k)				
400°C	0.08	0.07	0.07	0.07
600°C	0.11	0.1	0.1	0.1
800°C	0.14	0.13	0.13	0.13
1000°C	0.19	0.17	0.19	0.18
Chemical Composition (%)				
Al2O3	≥44	≥44	≥44	≥35
SiO2	≥52	≥55	≥50	≥49
ZrO2	-	-	≥5	≥15
Package	pallet			

CCEWOOL® Large Size Ceramic Fiber Board for Fabrication	
Thickness (mm)	20.25.50
Size (mm)	2400×1200 or customized size

CCEWOOL® Ultra-Thin Ceramic Fiber Board for Fabrication

Classification Temperature: 1260°C (2300°F), 1400°C (2550°F), 1430°C (2600°F)
Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Ultra-Thin Ceramic Fiber Board for Fabrication is a

high-performance board developed for precision customized insulation structures. It is designed for electronics, electrical equipment, and other space-constrained applications with strict high-temperature control requirements. Rather than simply being a thinner version of standard board, it is developed specifically for Fabrication applications requiring ultra-thin profiles, dimensional accuracy, assembly consistency, and system integration.

The product is available in thicknesses from 3–10 mm and is manufactured using a fully automated continuous production line combined with CNC precision machining. Vacuum forming ensures uniform fiber distribution, allowing the board to maintain stable density, good compressive strength, thermal insulation performance, and structural stability even at very low thicknesses.

As a Fabrication product, CCEWOOL® Ultra-Thin Ceramic Fiber Board can be customized according to customer drawings, structural dimensions, and assembly requirements. It is suitable for ultra-thin shaped insulation parts, precision thermal insulation components, and customized high-temperature protection structures. Compared with secondary machining of conventional boards, it offers better dimensional consistency, assembly efficiency, and finished-product stability.

With its lightweight structure, dimensional accuracy, and reliable thermal insulation performance, CCEWOOL® Ultra-Thin Ceramic Fiber Board for Fabrication provides effective thermal protection in limited spaces and is well suited for precision, lightweight, and integrated insulation designs.

Characteristics:

Low heat capacity;
Low thermal conductivity;
Maintains structural stability at high temperatures;
Excellent electrical insulation;
Easy to machine and shape;
Excellent thermal shock and corrosion resistance;
High flexibility;
Low lead content;
Good high-temperature stability;

High-strength rigid board;

Good chemical stability.

Applications:

Thermal insulation for electrical control cabinets and transformers;

Backing insulation for electric heating elements and heating modules;

Thermal protection for battery packs and energy storage systems;

Thermal insulation structures for semiconductor and instrumentation equipment.

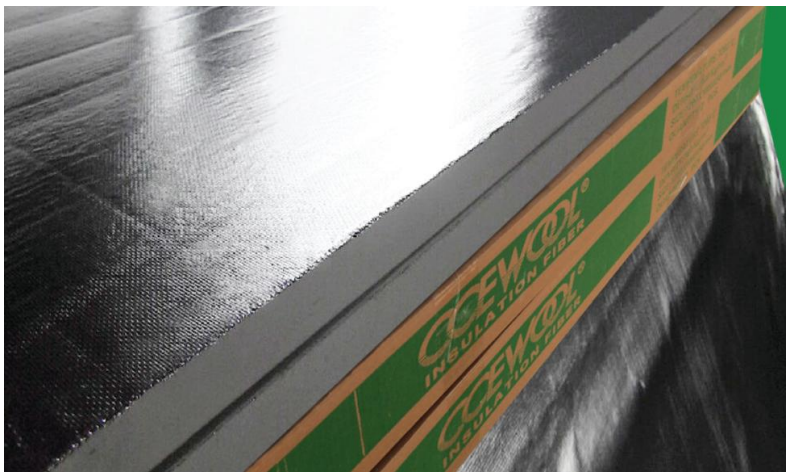
TDS

CCEWOOL® Ultra-Thin Ceramic Fiber Board for Fabrication			
Classification Temperature	1260°C(2300°F)	1400°C (2550°F)	1430°C (2600°F)
Operation Temperature	1050°C(1922°F)	1200°C(2192°F)	1350°C(2462°F)
Color	white	white	white
Loss of Ignition (%)	≤6	≤6	≤6
Permanent Linear Shrinkage (%)	1050°Cx24h≤3.0	1200°Cx24h≤3.5	1350°Cx24h≤3.5
Modules of Rupture (MPa)	≥0.3	≥0.3	≥0.3
Thermal Conductivity (w/m.k)			
400°C	0.08	0.07	0.07
600°C	0.11	0.1	0.1
800°C	0.14	0.13	0.13
1000°C	0.19	0.19	0.18
Chemical Composition (%)			
Al2O3	≥44	≥44	≥35
SiO2	≥52	≥50	≥49
ZrO2	-	≥5	≥15
Package	Carton box or pallet		

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

CCEWOOL® Ultra-Thin Ceramic Fiber Board for Fabrication	
Thickness (mm)	3-10
Density (kg/m3)	300 - 400
Size (mm)	900×600 or customized size

CCEWOOL® Ceramic Fiber Board with Aluminum Foil for Fabrication



Classification Temperature: 1100°C (2012°F), 1260°C (2300°F), 1400°C (2550°F), 1430°C (2600°F)
Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Ceramic Fiber Board with Aluminum Foil for Fabrication is a high-temperature composite board developed for customized insulation and protective structures. It is designed for applications requiring high dimensional accuracy, structural integrity, and surface protection. Rather than simply applying foil to a standard fiber board, the product is developed around Fabrication requirements for complex structures, precision assembly, and integrated insulation design.

The board is manufactured using a fully automated vacuum-forming process with 24-hour continuous production, followed by rapid and uniform automatic drying. This creates a dense and consistent internal structure, helping maintain stable compressive strength and thermal insulation performance at high

temperatures. The stable board structure provides a reliable base for customized Fabrication components requiring dimensional consistency and structural stability.

The board surface is faced with 0.2 mm European-standard aluminum foil with an EN M1 fire classification. The foil layer provides radiant heat reflection, surface protection, and a barrier against external environmental influences. It also helps improve surface integrity and durability during assembly, transportation, and long-term service.

As a Fabrication product, CCEWOOL® Ceramic Fiber Board with Aluminum Foil can be customized according to customer drawings, structural designs, and installation requirements. It can be manufactured into customized insulation panels, structural separators, protective components, and composite insulation parts. Single-sided, double-sided, and six-sided full aluminum foil facing options are available to suit different equipment structures and system designs.

With stable board performance, reliable foil facing, and good customization adaptability, CCEWOOL® Ceramic Fiber Board with Aluminum Foil for Fabrication provides an efficient material solution for insulation, protection, and structural separation in electrical and electronic equipment.

Characteristics:

Low heat capacity and low thermal conductivity;
High compressive strength;
Excellent resistance to gas erosion and long service life;
Excellent thermal stability and thermal shock resistance;
Continuous production with uniform fiber distribution and stable performance;
Good sound insulation;
Easy to form, cut, and install;
Accurate dimensions and good flatness.

Applications:

External insulation for industrial pipelines;
Insulation for hot-air ducts and high-temperature gas conveying systems;

Thermal insulation for heat-treatment equipment casings;

Insulation and protection for industrial furnaces and auxiliary equipment;

Thermal insulation for high-temperature vessels and equipment shells;

Insulation and protection for control cabinets and electrical equipment;

High-temperature insulation areas requiring radiant heat reflection.

TDS

CCEWOOL® Ceramic Fiber Board with Aluminum Foil for Fabrication					
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°Cx24 h≤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				

Zibo Double Egret Thermal Insulation Co.,Ltd
Add: No.105 Liuquan Road, Zibo, Shandong, China
Tel: +86-533-7986860
Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ceceramicfiber.com
www.ccewool.com

CCEWOOL® Ceramic Fiber Board with Aluminum Foil for Fabrication	
Thickness (mm)	20.25.50.80.100
Size (mm)	1200×1000 or customized size

CCEWOOL® 1900 Back-Up Board for Fabrication

Classification Temperature: 1900°F (1050°C), 2100°F (1150°C)
Chemical Composition: Alumina, Silica

CCEWOOL® 1900 Back-Up Board for Fabrication is an engineering-grade ceramic fiber board developed for backup insulation in industrial furnace lining systems. Made from high-purity aluminosilicate ceramic fiber and selected refractory raw materials, it is produced through continuous forming, pressing, curing, and precision cutting to provide a stable rigid structure.

With low thermal conductivity and low heat storage, the board helps reduce furnace shell temperature and heat loss while improving overall thermal efficiency. Compared with conventional industrial fiber boards, its more uniform fiber distribution and stable structure provide reliable long-term backup insulation performance.

The board features a uniform structure, flat surface, accurate dimensions, good mechanical strength, and thermal shock resistance. It is also designed for Fabrication applications and supports cutting,

drilling, grooving, and custom-shaped machining according to equipment structures and drawings, with customized dimensions and thicknesses available.

CCEWOOL® 1900 Back-Up Board for Fabrication provides a reliable and flexible backup insulation solution for industrial furnaces and high-temperature equipment.

Characteristics:

Low heat capacity and low thermal conductivity;
High compressive strength;
Non-brittle with good resilience;
Accurate dimensions and good flatness;
Easy to form, cut, and install;
Uniform fiber distribution and stable performance;
Excellent thermal stability and thermal shock resistance.

Applications:

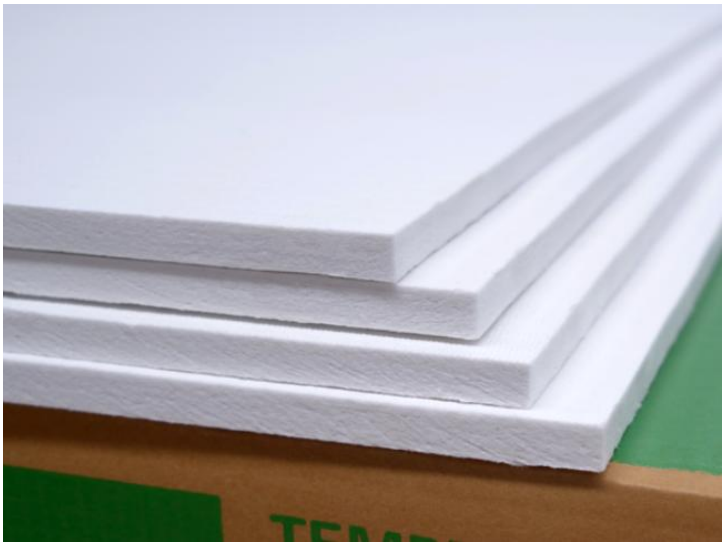
Backup insulation for cement and building-material kilns;
Backup insulation for ceramic kilns;
Backup and wall insulation for petrochemical and metallurgical furnaces;
Wall and backup insulation for glass furnaces;
Backup insulation for heat-treatment furnaces;
Refractory brick backup insulation in aluminum electrolytic cells;
Wall and backup insulation for high-temperature reaction and heating equipment.

TDS

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

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