

CCEWOOL Ultrathin 6mm Ceramic Fibre Blanket



Temperature Grade: 1260 °C (2300 °F),

1400 °C (2552 °F), 1430 °C (2606 °F)

CCEWOOL Ultra-Thin Ceramic Fiber Blanket is produced using an advanced fiber-spinning process and contains no organic binders, giving it a pristine, snow-white appearance. The blanket is woven from spun fibers into an ultra-thin profile that nonetheless offers exceptional refractory, thermal insulation, and heat-retention performance, remaining stable in environments up to 1430 °C. Lightweight yet high in tensile strength and flexible enough for easy on-site cutting without special

tools, it features low thermal conductivity and low heat capacity to minimize heat loss and maximize energy savings.

With outstanding thermal-shock resistance and chemical-corrosion resistance, the CCEWOOL Ultra-Thin Ceramic Fiber Blanket maintains long-term insulation performance even under harsh conditions—such as in metallurgy, petrochemical processes, industrial furnaces, and heat-treatment applications—providing durable, reliable protection for high-temperature equipment.

Characteristics:

- Excellent chemical stability;
- Excellent thermal stability;
- Superior tensile strength;
- Low thermal conductivity;
- Low heat capacity;
- Outstanding insulation performance;
- Good sound-absorption properties, etc.

Application:

Precision insulation lining for housings of furnaces, heaters, reactors, dryers, and similar equipment;

Interior lining of casting molds or pouring systems to prevent heat loss;

Insulation of precision instrument areas such as sensors, high-temperature control cabinets, and observation ports;

Thermal-insulation wrapping for high-temperature metal piping, including engines, boilers, and exhaust systems;

Insulating liners for non-industrial heat sources such as fireplaces, baking ovens, and sintering furnaces.

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CCEWOOL® Ultrathin 6mm Ceramic Fibre Blanket				
Classification	1260S	1260HPS	1400LZ	1430HZ
Classification temperature	1260℃(2300°F)	1260℃(2300°F)	1400℃(2550°F)	1430℃(2600°F)
Operation Temp	1050℃(1922°F)	1100℃(2012°F)	1200℃(2192°F)	1350℃(2462°F)
Density (kg/m ³)	128/ 160 (8,10lb/ft ³)			
Shot Content(%)	≤15	≤15	≤15	≤12
Color	White	White	White	White
Chemical Composition of refractory ceramic blanket (%)				
Al ₂ O ₃	≥43	≥44	≥44	≥35
SiO ₂	≥54	≥55	≥50	≥49
ZrO ₂	-	-	≥5	≥15
Permanent Change on Heating (%), EN1094-1 After 24 hours				
@950℃ (1742°F)	-	-	-	-
@1000℃ (1832°F)	1.5	1.5	-	-
@1100℃ (2012°F)	2.5	2.2	1.5	-
@1200℃ (2192°F)	3	3	2	1
@1300℃ (2372°F)	-	-	3	2
@1400℃ (2552°F)	-	-	-	3
Tensile Strength(Kg/m ³), EN1094-1 KPa				
64kg/m ³ (4lb/ft ³)	35	45	45	-
96kg/m ³ (6lb/ft ³)	55	65	65	65

128kg/m ³ (8lb/ft ³)	75	85	85	85
160kg/m ³ (10lb/ft ³)	110	125	125	125
Heat Conductive Co-efficient W/(m·k)(128kg/m ³)				
200℃ (392°F)	0.06	0.06	0.06	0.06
400℃ (752°F)	0.1	0.1	0.1	0.1
600℃ (1112 °F)	0.18	0.17	0.16	0.15
800℃ (1472°F)	0.2	0.2	0.2	0.19
1000℃ (1832°F)	0.27	0.26	0.26	0.26

Thickness	Density (kg/m ³)				Length	Width
mm	64	96	128	160	mm	mm
6	-	-	○	○	7200	610, 1220

Note: (√) is standard size, Custom size are available