

CCEWOOL Ceramic Fiber Blanket with Aluminum Foil



Temperature Grade: 1260 °C (2300 °F),
1400 °C (2552 °F), 1430 °C (2606 °F)
CCEWOOL Ceramic Fiber Blanket with
Aluminum Foil is manufactured using our
proprietary inner-needle, double-sided
needle-punched process, achieving a tensile
strength in excess of 75 kPa for extended
service life. We use European-standard
aluminum foil at a thickness of 0.2 mm, rated M1
for fire performance under EN standards, and
rated for service from -40 °C to 250 °C. In terms
of safety and environmental compliance, it

meets SGS RoHS and EU TUV LFGB testing standards and carries UL certification. Our product lineup
includes blankets with one-sided foil facing, two-sided foil facing, and fully six-sided foil encapsulation.

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:

- Cable trays and conduits;
- Railroad tank cars;
- Transfer vehicles;
- Ships (bulkheads and decks);

Expansion joints;
Structural steel plates;
Fire-door seals;
Chimney liners;
Ceiling air diffusers;
Circuit protection;
Fire protection in ship engine rooms and exhaust chimneys;
High-temperature insulation for exhaust ducts in general commercial and industrial applications;
High-temperature ventilation ducts, kitchen hoods and ductwork, supply and exhaust vents;
Electrical conduit and wire protection.

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CCEWOOL® Ceramic fiber blanket with aluminum foil				
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/m3)	96/ 128/ 160 (6,8,10lb/ft3)			
Aluminum foil thickness (mm)	0.2			
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/m3), EN1094-1 KPa				
64kg/m3(4lb/ft3)	35	45	45	-
96kg/m3(6lb/ft3)	55	65	65	65
128kg/m3(8lb/ft3)	75	85	85	85
160kg/m3(10lb/ft3)	110	125	125	125
Heat Conductive Co-efficient W/(m·k)(128kg/m3)				
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/m3)				Length	Width
mm	64	96	128	160	mm	mm
6	-	-	○	○	7200	610, 1220
13	-	√	√	○	14640	
19	-	√	√	○	9760	
25	○	√	√	√	7320	
38	○	√	√	√	4880	
50	○	√	√	-	3660	

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