

CCEWOOL® RESEARCH series Ceramic Fiber Blanket with Alumina Foil

Description:

CCEWOOL® research series ceramic fiber aluminum foil blanket is mainly used for insulation and fire resistant application in fire protection pipe, flue and vessel.

Adopting European standard aluminum foil, the aluminum foil is thin and has good conformability. Being directly bond without using binders can connect the CCEWOOL ceramic fiber blanket with the aluminum foil better. This product is easy to install and more durable.

Characteristics:

Excellent chemical stability;
Excellent thermal stability;
Excellent tensile strength;
Low thermal conductivity;
Low heat capacity;
Excellent insulation properties;
Good sound insulation

Application:

Cable bracket, duct
Railroad oil tanker
Vessel
Vessel wall and board
Expansion joint
Structural steel panel
Seals for fireproof door
Electric circuit protection
Chimney liner insulation
General high temperature insulation, exhaust ducts of commercial and industrial application
High temperature ventilation ducts, kitchen exhaust hoods and fume pipes, supply and exhaust air vents
Fire protection, Ships engine rooms, exhaust chimneys
Air ventilation duct enclosure, through penetration fire stop systems
Electrical ducts, protection of electrical wiring

Technical data:

CCEWOOL® RESEARCH series ceramic fiber blanket with alumina foil					
Classification temperature	1260STD (2300°F)	1260HP (2300°F)	1400AZ (2550°F)	1430HZ (2600°F)	
Operation Temp(°C)	1050	1100	1200	1350	
Density (kg/m3)	64/ 96/ 128/160 (4,6,8,10lb/ft3)				
Permanent Change on Heating (%), EN1094-1					
After 24 hours @950°C	-	-	-	-	
@1000°C	1.5	1.5	-	-	
@1100°C	2.5	2.2	1.5	-	
@1200°C	3	3	2	1	
@1300°C	-	-	3	2	
@1400°C	-	-	-	3	
Tensile Strength(Kg/m3), EN1094-1 KPa					
Density 64kg/m3	30	30	30	30	
96kg/m3	50	50	50	50	
128kg/m3	70	70	70	70	
160kg/m3	100	100	100	100	
Heat Conductive Co-efficient W/(m·k)(128kg/m3)					
Temperature	@200°C	0.07	-	-	0.06
	@400°C	0.12	-	-	0.11
	@600°C	0.2	-	-	0.16
	@800°C	0.3	-	-	0.23
	@1000°C	0.45	0.4	0.43	0.35

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Chemical Composition of ceramic blanket (%)				
Al ₂ O ₃	45-46	47-49	45-46	35-38
Al ₂ O ₃ +SiO ₂	≥98	≥99	-	-
ZrO ₂	-	-	5	15-17
Al ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	≥99	≥99
Fe ₂ O ₃	≤0.8	≤0.2	≤0.2	≤0.2
Na ₂ O+K ₂ O	≤0.3	≤0.2	≤0.2	≤0.2
CaO+MgO	≤0.1	≤0.1	≤0.1	≤0.1

Size:

Thickness mm	Density kg/m ³			Length mm	Width mm
	96	128	160		
13	√	√	○	7200	610, 1220
19	√	√	○	9760	
25	√	√	√	7320	
38	√	√	√	4880	
50	√	√	-	3660	

Note:

(○) and 1220mm width can be customized according to customer (order amount should not be less than the minimum order quantity)

(√) for conventional products