

CCEWOOL® Classic series Ceramic Fiber Blanket

Description:

CCEWOOL® classic series ceramic fiber blanket is manufactured from classic series fiber spun bulk with super high tensile strength and no organic binders. Made through special inside needle flower technology offers this product with safe & stable, energy efficient properties. Meanwhile, different specifications and densities are all available.

Characteristics:

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

Application:

Industrial furnace wall lining;
Back lining material;
Furnace masonry expansion joints, door, roof heat insulation seal;
High temperature pipe insulation material;
Module / folded module processing material;
Fireproof coating.
Steel industry
Heat treating and annealing furnaces
Furnace door linings and seals
Soaking pit covers and seals
Furnace hot face repairs
Reheat furnaces
Ladle covers
Power generation
Boiler Insulation
Boiler Doors
Reusable Turbine Covers

Pipe Covering
Insulation of Commercial Dryers and Covers
Veneer Over Existing Refractory
Stress Relieving Furnaces
Glass Furnace Crown Insulation
Fire Protection

Technical data:

CCEWOOL® Classic series ceramic fiber blanket				
Classification temperature	1260STD (2300°F)	1260 HP (2300°F)	1400AZ (2550°F)	1430HZ (2600°F)
Operation Temp(°C)	1050°C	1100°C	1200°C	1350°C
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

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128kg/m ³		70	70	70	70
160kg/m ³		100	100	100	100
Heat Conductive Co-efficient W/(m·k)(128kg/m ³)					
Temperature	@200℃	0.07	0.07	0.07	0.06
	@400℃	0.12	0.12	0.12	0.11
	@600℃	0.2	0.2	0.2	0.16
	@800℃	0.3	0.3	0.3	0.23
	@1000℃	0.45	0.4	0.43	0.35
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
	64	96	128	160		
6	-	-	○	○	7200	610, 1220
13	-	√	√	○	14640	
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