

Ceramic Fiber Blanket

Rosewool ceramic fiber blanket has the excellent specialty of low thermal conductivity, good heat stability, thermal shock resistance and tensile strength, good thermal insulation, fire proof and noise reduction. It is widely used in power generation, iron and steel, Aluminum /non-ferrous metals, glass, ceramics, aerospace, super alloys, petrochemical, semiconductors, cement, automotive, domestic appliances etc. Temperature level is 1100-1430°C (2012°F--2600°F).



Product Features :

- Low thermal conductivity
- Good heat and chemical stability
- Thermal shock resistance
- Tensile strength
- Good thermal insulation
- Noise reduction
- Fire proof

Technical data of ceramic fiber blanket

Type	COM	ST	HP	HA	HZ
Classified Temp.	1100°C (2012°F)	1260°C (2300°F)	1260°C (2300°F)	1360°C (2480°F)	1430°C (2600°F)

Working Temp.	<1000 °C (1832°F)	1050°C (1922°F)	1100°C (2012°F)	1200°C (2192°F)	1350°C (2462°F)	
Color	white	white	white	white	white	
Density(kg/m ³)	96/128 (6/8 lb/ft ³)	96/128 (6/8 lb/ft ³)	96/128 (6/8 lb/ft ³)	128/160 (8/10 lb/ft ³)	128/160 (8/10 lb/ft ³)	
Linear Shrinkage (%) (24 hrs,density 128 kg/m ³)	-4 (1000°C/ 2012°F)	-3 (1000°C/ 1832°F)	-3 (1100°C/ 2012°F)	-3 (1250°C/ 2282°F)	-3 (1350°C/ 2462°F)	
Thermal conductivity(W/M.K) Density 128kg/m ³ (8 lb/ft ³)	0.09(400°C/ 752°F) 0.16(800°C/ 1472°F)	0.09(400°C/ 752°F) 0.16(800°C/ 1472°F)	0.09(400°C/ 752°F) 0.16(800°C/ 1472°F) 0.20(1000°C/ 1832°F)	0.12(600°C/ 1112°F) 0.20(1000°C/ 1832°F)	0.16(600°C/ 1112°F) 0.20(1000°C/ 1832°F)	
Tensile Strength(Mpa) (Density 128kg/m ³)	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	
Chemical (%)	Al ₂ O ₃	44	46	47-49	52-55	39-40
	Al ₂ O ₃ +SiO ₂	96	97	99	99	-
	Al ₂ O ₃ +SiO ₂ + ZrO ₂	-	-	-	-	99
	ZrO ₂	-	-	-	-	15-17
	Fe ₂ O ₃	<1.2	<1.0	0.2	0.2	0.2
	Na ₂ O+K ₂ O	≤0.5	≤0.5	0.2	0.2	0.2
Size(mm)	7200/3600*610/1220/10-50mm or customized as yours 25'/12' * 24"/48" * 1"/2"					

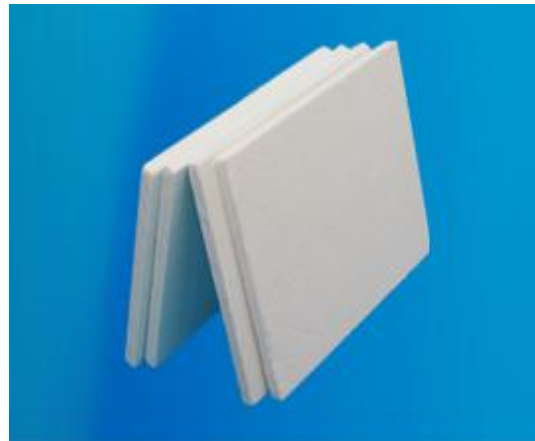
Application of ceramic fiber blanket

- Linings and back-up insulation for all types of furnaces, heaters and kilns
- External insulation such as boiler, turbine, duct and piping, precision casting shell etc.
- Vehicles and domestic appliance insulation,

- High temperature sealing material such as ladle lid, duct connecting part etc.
- Noncombustible materials for building
- High temperature gas filtration material, high temperature part sound absorbing material.
- Pressure and cryogenic vessel fire protection
- Furnace repairs

Ceramic Fiber Board

ROSEWOOL ceramic fiber board is made of Ceramic fiber cotton by the process of vacuum forming or dry process refined by dry and machining. It has the good specialty of rigidity flexibility heavy intensity anti-wind erosion, non-expansion, lightweight, and easy to construct. It can be cut and bent optionally. Thus, it is the practical and efficient material of kiln and furnace, pipe and other thermal insulation equipment.



Products Features:

Excellent thermal stability.

Resistance to burning.

Low thermal conductivity.

Low heat storage.

Good obstructing voice and mechanism strength.

Low shrinkage.

Good springiness for fibers

Convenient producing and installing

Technical data of ceramic fiber board

Type	COM	ST	HP	HA	HZ	
Classified Temp.	1100°C (2012°F)	1260°C (2300°F)	1260°C (2300°F)	1360°C (2480°F)	1430°C (2600°F)	
Working Temp.	<1000°C (1832°F)	1050°C (1922°F)	1100°C (2012°F)	1200°C (2192°F)	1350°C (2462°F)	
Color	white	white	white	white	white	
Density(kg/m ³)	260-320 (16-20lb/ft ³)	260-320 (16-20lb/ft ³)	260-320 (16-20lb/ft ³)	260-320 (16-20lb/ft ³)	260-320 (16-20lb/ft ³)	
Linear Shrinkage (%) (24 hrs)	-3 (1000°C/ 1832°F)	-3 (1000°C/ 1832°F)	-3 (1100°C/ 2012°F)	-3 (1250°C/ 2282°F)	-3 (1350°C/ 2462°F)	
Thermal conductivity(W/M.K)	0.085(400°C /752°F) 0.132(800°C /1472°F) 0.180(1000 °C/2012°F)	0.085(400°C /752°F) 0.132(800°C /1472°F) 0.180(1000 °C/2012°F)	0.085(400°C /752°F) 0.132(800°C /1472°F) 0.180(1000 °C/2012°F)	0.085(400°C/ 752°F) 0.132(800°C/ 1472°F) 0.180(1000 °C/2012°F)	0.085(400°C /752°F) 0.132(800°C /1472°F) 0.180(1000 °C/2012°F)	
Compression Strength (Mpa)	0.5	0.5	0.5	0.5	0.5	
Chemical (%)	Al ₂ O ₃	44	46	47-49	52-55	39-40
	Al ₂ O ₃ +SiO ₂	96	97	99	99	-
	Al ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	-	-	99
	ZrO ₂	-	-	-	-	15-17
	Fe ₂ O ₃	<1.2	<1.0	0.2	0.2	0.2
	Na ₂ O+K ₂ O	≤0.5	≤0.5	0.2	0.2	0.2
Size(mm)	1200*1000mm(47"*40"); 1000*600mm(40"*36");900*600mm(24"*36") 20-50mm (1"/2") thickness					

Applications of ceramic fiber board

- The wall liner and back lining materials of high-temperature reaction, reheating equipment and various industrial furnace such as used glass tempering furnace, pottery kiln, ceramic kiln and tunnel kiln.
 - Insulating and fire proof plate of furnace door and roof or house chimney and fireplace.
 - Lows fire proof and insulation for chimney cake ovens, pizza oven.
 - boilers and heater combustion chamber
 - Aluminum factories-reduction cell firebricks back linings
 - Ladle furnace backing
 - Shipping, aviation, precision industrial equipment
 - Refractory and thermal insulation material in kiln or furnace of construction industry for heating and wall liner of high-heat treatment.
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Ceramic Fiber Paper

Blending with high quality ceramic fibers and binders, additives, ROSEWOOL ceramic fiber paper is proved to be a flexible and uniform sheet in handing heat treatment. Our paper has a highly uniform structure due to its well-controlled weight and thickness, assuring homogeneous thermal conductivity and a clean ,smooth surface .



Products Features:

Easy to cut, wrap or form

- Low thermal conductivity and heat storage
- Excellent thermal shock and flame resistance
- Light weight
- Resilient
- Excellent hydrophobic property
- Good dielectric strength
- Free of asbestos

Technical data of ceramic fiber paper

Classification Temperature		1260°C (2300°F)	1430°C (2600°F)
Bulk density (kg/m ³)		200-250 (13-16 lb/ft ³)	
Organic content(%)		6-8.	
Thermal conductivity (w/m.k)		0.075-0.085 (200°C /392°F)	
		0.115-0.121 (400°C/752°F)	
		0.165-0.175 (600°C/1112°F)	
Moisture Content(%)		≤1	≤2
Chemical composition (%)	Al ₂ O ₃	45-46	38-47
	SiO ₂	51-52	51-52
	ZrO ₂		15-17
Size(mm)		100000*610/1220*0.5 (24'/48' width)	
		60000*610/1220*1 (24'/48' width)	
		30000*610/1220*2 (24'/48' width)	
		20000*610/1220*3 (24'/48' width)	
		15000*610/1220*4 (24'/48' width)	
		12000*610/1220*5 (24'/48' width)	
		10000*610/1220*6 (24'/48' width)	
Packing		By Carton with plastic bag	

Application of ceramic fiber paper

- Asbestos paper replacement
 - Investment cast mold wrap insulation
 - One-time consumable insulating applications
 - Back-up lining for metal troughs
 - Hot top lining
 - Applications where low binder content is required
 - Thermal and electrical insulation
 - Upgrade for fiber glass paper and blanket products
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Ceramic Fiber Module

ROSEWOOL Ceramic Fiber Modules are made from the corresponding ceramic fiber material acupuncture blanket processed in dedicated machines according to fiber component structure and size. Ceramic fiber folded modules is directly fixed in industrial furnaces shell plate by various anchorage.



Anchor available -- S304, S310

Products Features:

- Faster temperature cycling
- Lower heat storage
- Lower fuel costs,energy savings
- Increased productivity

Low heat loss

Lower installed cost,easy to install

Easier repairs,Requires less maintenance

Resistance to thermal shock

Fast thermal cycling (heat up/cool down)

Technical data of ceramic fiber module

Type		STD Module	HP Module	HZ Module
Classified Temperature		1260℃ (2300°F)	1260℃ (2300°F)	1430℃ (2606°F)
Working Temperature		1050℃ (1922°F)	1100℃ (2012°F)	1350℃ (2462°F)
Density(kg/m3)		160-260 (13-16 lb/ft³)		
Linear Shrinkage 24hrs		≤2.5 1000℃/2012°F	≤2.5 1100℃/2012°F	≤3.5 1350℃/2462°F
Thermal Conductivity(W/m.k)	400℃ (752°F)	0.09	0.101	0.118
	500℃ (930°F)	0.119	0.12	0.149
	600℃ (1112°F)	0.152	0.175	0.195
Chemical Composition %	Al ₂ O ₃	≥44	≥45	≥34
	SiO ₂	≥52	≥54	≥50
	ZrO ₂			≥15
	Fe ₂ O ₃	≤1.0	≤0.5	≤0.5
	K ₂ O+Na ₂ O	≤1.0	≤0.2	≤0.2
Size		300/600*300*200-350 mm		
Packing		plastic bag together with Carton or Pallet		

Application of ceramic fiber module:

Used as thermal lining for all types of high temperature processing equipment such as:

- Stress relieving furnaces
- Reheat furnaces
- Annealing furnaces
- Process heater linings
- Heat treating furnaces
- Furnace, kiln and boiler linings
- Incineration equipment and stack linings
- Soaking pit covers
- Ladle covers
- Ethylene furnaces
- Forge furnaces
- Tunnel kilns
- Feed heaters
- Shuttle kilns

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