



Zibo Soaring Universe Refractory & Insulation Materials Co., Ltd.

Website: www.suntherm-industry.com



Company Introduction

Zibo Soaring Refractory & Insulation materials Co., Ltd is a production company engaged in thermal insulation materials. It was established in 1993, with more than 28 years production experience in ceramic fiber field and more than 15 years of export experience. Company brand is SUNTHERM, formally approved by the State Trademark Bureau.

SUNTHERM factory covers an area of about 28,000 square meters and till now has 46 production lines, with an annual output of about 200,000 tons. Our production equipment is constantly updated, production technology continues to improve, production energy consumption is low. And our equipment can be customized. Both products and production lines are produced. In addition, we have our own research and development team, all products are designed by engineers independently.

At present, the production scale of our company is as follows:

28 lines for ceramic fiber blanket, 6 lines for ceramic fiber board, 3 lines for ceramic fiber paper, 3 lines for ceramic fiber vacuum forming special shapes, 6 lines for ceramic fiber textiles ,and other products workshops.

Since the establishment of the company, the business scope has been continuously developed, the products are exported to Europe, North America, the Middle East, Southeast Asia, Latin America and other more than 80 regions and countries.

SUNTHERM FACTORY



Brand concept

Company's brand is SUNTHERM, formally approved by the State Trademark Bureau. SUNTHERM is an abbreviation for the name of our company has a broad meaning: The "SUN" represents an endless supply of power and the concept of environmental protection. The "THERM" represents the attitude of our service and the spirit of continuous innovation. We hope to be able to provide our customers with more environmentally friendly, more cost savings, faster delivery and more good service.

SUNTHERM is committed to releasing the natural power of ore. We strive to increase our positive impact on people and society by maximizing our positive product impact and minimizing our operational footprint. We recognize that operating with integrity and as a responsible business is equally important and underpins everything we do.

Therefore, we will always take the development of low-carbon, environmentally friendly, and energy-saving products as our responsibility, insist on innovation, adhere to integrity, and keep making progress, to dedicate more and better new energy-saving products to the world.



SUNTHERM Products

[Ceramic Fiber Products](#)

[Bio-Soluble Fiber Products](#)

[Ceramic Fiber Products with Al Foil](#)

[Ceramic Gas Log](#)

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SUNTHERM Production Line

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[Rock Wool Production Line](#)



SUNTHERM -- YOUR SPECIALIST OF ENERGY SAVING AND COST REDUCING.

Certificate



SUNTHERM CERTIFICATE



RoHS TEST REPORT

NO. BR107920 Date: Jul 16, 2010 Page 1 of 4

Customer: Zibo Soaring Universe Refractory & Insulation Materials Co., Ltd.
Address: No. 267 Central Road, Zibo City, Shandong, China

Sample Name: Ceramic Fiber
Material: Ceramic Fiber
Buyer: [Redacted]
Manufacturer: [Redacted]

Element	Concentration (%)	Limit Value (%)	Result
Cadmium	0.0001	0.01	Pass
Lead	0.0001	0.1	Pass
Mercury	0.0001	0.001	Pass
Chromium	0.0001	0.01	Pass
Hexavalent Chromium	0.0001	0.001	Pass
Polychlorinated Biphenyls (PCBs)	0.0001	0.001	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	0.0001	0.001	Pass

Conclusion: Screened components of submitted samples
Standard: Screened by EMP analytical and chemical confirmation test for RoHS directive (2002/95/EC)

Result: Pass



Report No.: B-R1603281 Page 1 of 11

Applicant: Zibo Soaring Universe Refractory & Insulation Materials Co., Ltd.
Address: No. 267, Central Road, Zibo City, Shandong, China
Client No.: 05333986
Manufacturer: Zibo Soaring Universe Refractory & Insulation Materials Co., Ltd.
Address: No. 267, Central Road, Zibo City, Shandong, China

Report on the submitted sample said to be:

Sample Name: Ceramic Fiber Blanket
Model No.: 1260C Standard, 1260C High Pure, 1360C High Aluminum, 1360C Alu-Zr, 1430C Zirconium, 1600C, H9
Sample Model: 1260C Standard
Sample Collected On: 2010.07.22
Complete Date: 2010.07.28

Test Specification: Substances of Very Concern (SVHC) listed in the REACH Annex 17, as published by European Chemical Agency (ECHA) in accordance with the specific test methods and analytical techniques for each of the 168 SVHCs.

Company No. 00000000

Written by: [Signature] Inspected by: [Signature] Approved by: [Signature]

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Ceramic Fiber Bulk



Product Introduction

SUNTHERM Ceramic Fiber Friction Material is made from standard ceramic fiber blown/spun bulk through shear, slag removal processes, and secondary processing, as one of ideal raw material for production of friction materials.

Product Features

Low thermal conductivity, low thermal capacity
 Excellent thermal stability and good resistance to heat shock
 Excellent thermal insulation, fire-proof and sound absorption

Product Application

- The industry kiln, heating device, high temperature pipe lining
- The industry kiln, heating device, high temperature pipe lining
- Power boiler, gas turbine and heat and nuclear power insulation
- Chemical industrial high temperature equipment and heating equipment lining
- Fireproof and heat insulation for high building
- Heat insulation for Kiln door and roof.
- High-grade household appliances thermal insulation device
- High temperature filtration etc

Bulk series (1) Ceramic fiber spun bulk (2) Ceramic fiber blown bulk (3) Bio-soluble ceramic fiber bulk

Product Technical Specifications

Item		STD	HP	HA	ZA	HTZ
Classification Temp (°C)		1260 (2300F)	1260 (2300F)	1360 (2480F)	1360 (2480F)	1430 (2600F)
Working Temp (°C)		≤1050	≤1100	≤1200	≤1200	≤1350
Color		Pure White	Pure White	Pure White	Pure White	Pure White
Thermal Conductivity (w/m.k)	400C	0.095	0.095	0.114	0.114	0.122
	500C	0.123	0.123	0.135	0.135	0.153
	600C	0.158	0.158	0.191	0.191	0.184
Permanent Linear change (%)		1000°C X24h≤ -3	1100°C X24h≤ -3	1200°C X24h≤ -3		1350°C X24h≤ -3
Chemical Composition (%)	AL2O3	45-46	47-49	52-55	45-46	39-40
	AL2O3+SIO2	97	99	99	-	-
	AL2O3+SIO2+ZrO2	-	-	-	99	99
	ZrO2	-	-	-	5-7	15-17
	Fe2O3	≤1.0	≤0.2	≤0.2	≤0.2	≤0.2
	Na2O+K2O	≤0.5	≤0.2	≤0.2	≤0.2	≤0.2
Package		Plastic weaving bag and cartons				
Certificate		CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH				

Ceramic Fiber Blanket



Product Introduction

SUNTHERM Ceramic Fiber Blanket (Aluminum silicate ceramic fiber blanket) is manufactured from aluminum silicate fiber bulk spinning from Kaolinite, alumina silicon dioxide and zircon sand, which been series processing of needling ,cutting and rolling, including 1260℃ Standard, 1260℃ High pure, 1360℃ High Aluminum, 1430℃ Zirconium ceramic fiber blanket.

Product Features

Low thermal conductivity, low thermal capacity
 Excellent thermal stability and good resistance to heat shock
 Excellent tensile strength

Product Application

- The industry kiln, heating device, high temperature pipe lining
- Power boiler, gas turbine and heat and nuclear power insulation
- Chemical industrial high temperature equipment and heating equipment lining
- Fireproof and heat insulation for high building
- High-grade household appliances thermal insulation device
- High temperature filtration etc

Blanket series (1) Ceramic fiber blanket (2) Bio-soluble ceramic fiber blanket
 (3) Hydrophobic ceramic fiber blanket (4)1600C Polycrystalline Blanket

Product Technical Specifications

Item		STD	HP	HA	ZA	HTZ
Classification Temp (℃)		1260 (2300F)	1260 (2300F)	1360 (2480F)	1360 (2480F)	1430 (2600F)
Working Temp (℃)		≤1050	≤1100	≤1200	≤1200	≤1350
Color		Pure White	Pure White	Pure White	Pure White	Pure White
Bulk Density (Kg/m ³)		64-160	64-160	96-160	96-160	96-160
Permanent Linear change (%)		1000℃X24h≤ -3	1100℃X24h≤ -3	1200℃X24h≤ -3		1350℃X24h≤ -3
Thermal Conductivity (w/m.k)	400C	0.095	0.095	0.114	0.114	0.122
	500C	0.123	0.123	0.135	0.135	0.153
	600C	0.158	0.158	0.191	0.191	0.184
Tensile Strength (Mpa)		0.04-0.06	0.05-0.075	0.05-0.075	0.05-0.075	0.05-0.075
Chemical Composition (%)	AL ₂ O ₃	45-46	47-49	52-55	45-46	39-40
	AL ₂ O ₃ +SiO ₂	97	99	99	-	-
	AL ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	-	99	99
	ZrO ₂	-	-	-	5-7	15-17
	Fe ₂ O ₃	≤1.0	≤0.2	≤0.2	≤0.2	≤0.2
	Na ₂ O+K ₂ O	≤0.5	≤0.2	≤0.2	≤0.2	≤0.2
Size(mm)		Length:3600 & 7200 & 14640 Width:610 & 1220 Thickness: 6-60; As customer's requirements.				
Package		Plastic weaving bag and cartons				
Certificate		CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH				

Ceramic Fiber Paper



Product Introduction

SUNTHERM Ceramic Fiber Paper takes ceramic fiber as main raw material, using wet paper molding process to be made, with the advantage of good resistance to high temperature, low thermal conductivity, corrosion resistance. Products are divided into: common, high pure, high aluminum, zirconium type aluminum silicate ceramic fiber, which been made well by series processing of needling, cutting and rolling.

Product Features

Easy twisting, shaping and cutting
 Low thermal conductivity, low thermal capacity
 Excellent tensile strength

Product Application

- Furnace expansion joint filler
- High temperature gasket
- High-temperature insulation backing
- Fire protection facilities
- Molten metal splash protection
- High-end household appliances insulation device

Paper series (1) Ceramic fiber paper (2) Bio-soluble Ceramic fiber paper
 (3) Fire resistant paper (4) Expanded graphite ceramic fiber paper

Product Technical Specifications

Item		STD	HP	HA	HTZ
Classification Temp (°C)		1260 (2300F)	1260 (2300F)	1360 (2480F)	1430 (2600F)
Working Temp (°C)		≤1050	≤1100	≤1200	≤1350
Color		Pure White	Pure White	Pure White	Pure White
Bulk Density (Kg/m ³)		180-220	180-220	180-220	180-220
Permanent Linear change (%)		950°CX24h≤ -3.5	1100°CX24h≤ -3.5	1200°CX24h≤ -3.5	1350°CX24h≤ -3.5
Thermal Conductivity (w/m.k)	400C	0.07	0.07	0.069	0.068
	600C	0.09	0.09	0.088	0.087
	800C	0.12	0.12	0.110	0.10
Organic Content (%)		10	8	8	8
Tensile Strength (≥Mpa)		0.65	0.65	0.70	0.75
Chemical Composition (%)	AL ₂ O ₃	45-46	47-49	52-55	39-40
	AL ₂ O ₃ +SIO ₂	97	99	99	—
	ZrO ₂	—	—	—	15-17
Moisture (%)		≤ 1			
Size(mm)		Length:10000 – 120000;Width: 300-1800 Thickness: 0.50 -10; As customer's requirements.			
Package		Cartons			
Certificate		CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH			

Ceramic Fiber Board



Product Introduction

SUNTHERM Ceramic fiber board takes ceramic fibers as the main raw materials ,After fiber processing, slag removing, then add some organic and inorganic binder, through vacuum forming process, to be made into high strength fiber board.

Product Features

Low heat capacity, low thermal conductivity
 Non-brittle material, good elasticity
 Resistance to wind and erosion, long service life

Product Application

- Applications that require high-temper high strength from the load-bearing areas, High-temperature pipe wall lining, High-temperature furnace insulation, High temperature gasket
- For high air flow, mechanical damaging large areas of industrial furnace wall lining, door and roof seals
- Construction, fire doors, fire wall fire insulation
- Glass tank furnace insulation panels, Furnace roof insulation, Ladle furnace backing
- Molten metal delivery system
- Combustion chamber insulation
- Shipping, aviation, precision industrial equipment
- Heating equipment, household appliances, other high-end applications

Board series (1) Ceramic fiber board (2) Bio-soluble ceramic fiber board
 (3) Hydrophobic ceramic fiber board (4) Inorganic ceramic fiber board

Product Technical Specifications

Item		STD	HP	HA	ZA	HTZ
Classification Temp (°C)		1260 (2300F)	1260 (2300F)	1360 (2480F)	1360 (2480F)	1430 (2600F)
Working Temp (°C)		≤1050	≤1100	≤1200	≤1200	≤1350
Color		Pure White	Pure White	Pure White	Pure White	Pure White
Bulk Density (Kg/m3)		280---600	280---600	280---600	280-600	280---600
Permanent Linear change (%)		1000°CX24h≤ -3	1100°CX24h≤ -3	1200°CX24h≤ -3	1200°CX24h≤ -3	1350°CX24h≤ -3
Thermal Conductivity (w/m.k)	200C	0.074	0.055	0.078	0.078	0.078
	400C	0.092	0.073	0.102	0.102	0.102
	500C	0.103	0.086	0.116	0.116	0.116
	600C	0.127	0.105	0.12	0.12	0.12
Tensile Strength (Mpa)		0.50	0.50	0.50	0.5	0.50
Chemical Composition (%)	AL2O3	45—46	47—49	52—55	45-46	39—40
	AL2O3+SIO2	97	99	99	-	—
	AL2O3+SIO2+ZrO2	—	—	—	99	99
	ZrO2	—	—	—	5-7	15—17
	Fe2O3	≤ 1.0	≤0.2	≤0.2	≤0.2	≤0.2
	Na2O+K2O	≤ 0.5	≤ 0.2	≤ 0.2	≤0.2	≤ 0.2
Size(mm)		Length:600 & 900 & 1200; Width:300 & 600 & 1000 & 1200 Thickness: 3-100; As customers 'requirements.				
Package		Cartons or as customer's requirement.				
Certificate		CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH				

Ceramic Fiber Module



Product Introduction

SUNTHERM Ceramic Fiber Modules, which all can be processed mechanically, and with the advantage of smoothly surface and anti-erode, no fiber rupture, our products with advanced RX2 anchor system, the fixing operation easy, quick and efficiently.

Products are divided into: common, high pure, high aluminum, zirconium type.

Product Features

Low thermal conductivity, low thermal capacity

Excellent thermal stability and good resistance to heat shock

Excellent tensile strength

Product Application

- Petrochemical furnaces, cracking furnaces
- Steel industry furnace, annealing furnace, roller hearth furnace, etc
- The aluminum industry are hot furnace, furnaces are ceramic industry tunnel kilns, intermittent kilns, kiln firing

Module series (1) Ceramic fiber module (2) Bio-soluble ceramic fiber module (3) Ceramic fiber composite module

Product Technical Specifications

Item		STD	HP	HA	ZA	HTZ
Classification Temp (°C)		1260 (2300F)	1260 (2300F)	1360 (2480F)	1360 (2480F)	1430 (2600F)
Working Temp (°C)		≤1050	≤1100	≤1200	≤1200	≤1350
Color		Pure White	Pure White	Pure White	Pure White	Pure White
Bulk Density (Kg/m ³)		160-260	160-260	160-260	160-260	160-260
Permanent Linear change (%)		1000°C X 24h ≤ -3	1100°C x 24h ≤ -3	1200°C X 24h ≤ -3		1350°C x 24h ≤ -3
Thermal Conductivity (w/m.k)	400C	0.09	0.09	0.101	0.101	0.118
	500C	0.119	0.119	0.120	0.120	0.149
	600C	0.152	0.152	0.175	0.175	0.172
Chemical Composition(%)	AL ₂ O ₃	45—46	47—49	52—55	45—46	39—40
	AL ₂ O ₃ +SIO ₂	97	99	99	—	—
	AL ₂ O ₃ +SIO ₂ +ZrO ₂	—	—	—	99	99
	ZrO ₂	—	—	—	5—7	15—17
	Fe ₂ O ₃	≤ 1.0	≤0.2	≤0.2	≤0.2	≤0.2
	Na ₂ O+K ₂ O	≤ 0.5	≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.2
Size (mm)		Length:300 – 600; Height:150-300; Thickness:150-300 As customers' requirements.				
Package		Cartons				
Certificate		CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH				

Ceramic Fiber Vacuum Formed Shape



Product Introduction

SUNTHERM Ceramic Fiber Vacuum Formed Shape takes ceramic fibers as the main raw materials, after fiber processes, slag removing, then add some organic and inorganic binder, through vacuum forming process, to be made into high-strength fiber board. Products are divided into: common, high pure, high aluminum, zirconium type ceramic fiber.

Product Features

Low heat capacity, low thermal conductivity

Non-brittle material, good elasticity

Resistance to wind and erosion, long service life

Product Application

- Applications that require high-temperature toughness, high strength from the load-bearing areas
- For high air flow, mechanical damaging large areas of industrial furnace wall lining, door and roof seals
- Construction, fire doors, fire wall fire insulation

Product Technical Specifications

Item		STD	HP	HA	ZA	HTZ
Classification Temp (°C)		1260 (2300F)	1260 (2300F)	1360 (2480F)	1360 (2480F)	1430 (2600F)
Working Temp (°C)		≤1050	≤1100	≤1200	≤1200	≤1350
Color		Pure White	Pure White	Pure White	Pure White	Pure White
Bulk Density (Kg/m ³)		220-600	220-600	220-600	220-600	220-600
Permanent Linear change (%)		1000°CX24h≤-3	1100°CX24h≤-3	1200°CX24h≤-3		1350°CX24h≤-3
Thermal Conductivity (w/m.k)	200C	0.074	0.055	0.078	0.078	0.078
	400C	0.092	0.073	0.102	0.102	0.102
	500C	0.103	0.086	0.116	0.116	0.116
	600C	0.127	0.105	0.12	0.12	0.12
Tensile Strength (Mpa)		0.50	0.50	0.50	0.50	0.50
Chemical Composition (%)	AL ₂ O ₃	45-46	47-49	52-55	45-46	39-40
	AL ₂ O ₃ +SIO ₂	97	99	99	-	-
	AL ₂ O ₃ +SIO ₂ +ZrO ₂	-	-	-	99	99
	ZrO ₂	-	-	-	5-7	15-17
	Fe ₂ O ₃	≤1.0	≤0.2	≤0.2	≤0.2	≤0.2
	Na ₂ O+K ₂ O	≤0.5	≤0.2	≤0.2	≤0.2	≤0.2
Size(mm)		As customers drawings				
Package		Cartons				
Certificate		CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH				

Ceramic Fiber Textiles



Product Introduction

SUNTHERM Ceramic Fiber Textile, which takes high-strength ceramic fiber as raw material, under the traditional textile manufacturing technology, according to the different temperature and working conditions, made into cloth, belts, ropes, tube and other ceramic fiber textiles. Product can also work in high temperature chemistry industry of 950°C---1200°C, with good resistance of acid and alkali.

Product Features

- Construction convenient, many ways cut into various shapes
- Non-brittle material, good elastic and tensile strength
- Easy forming or cutting
- Good sound absorption and anti-spalling performance
- Good anti-vibration, impact, and bumpy performance
- Low heat capacity, low thermal conductivity, high refractory and high thermal sensitivity.
- High corrosion resistance and sealing
- Automatic production, stable density and performance

Product Application

- Winding insulation, fire-resistant
- Door and body furnace sealing,
- High temperature industrial furnace expansion joint filler
- High temperature gasket
- Asbestos rope replacement
- High temperature flexible expansion joints for piping of steam heating pipeline coating

Textile series

- (1) Ceramic fiber rope(round, square, twisted) with SS
- (2) Ceramic fiber rope(round, square, twisted) with Glass fiber
- (3) Ceramic fiber cloth with SS
- (4) Ceramic fiber cloth with Glass fiber
- (5) Ceramic fiber tape with SS
- (6) Ceramic fiber tape with Glass fiber
- (7) Bio soluble textiles (rope, cloth, tape)

**Product Technical Specifications****Ceramic Fiber Rope**

Item	Glass fiber strengthened ceramic fiber rope	Steel wires strengthened ceramic fiber rope
Working Temp(°C)	650C	1050C
Raw material	Aluminum silicate ceramic fiber + glass fiber	Aluminum silicate ceramic fiber +wire
Organic Content(°C)	≤15	
Density(KG/m3)	600-650	
Moisture content	≤2	
Diameter	3-90mm; As customer's requirement.	
Certificate	CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH	

Ceramic Fiber Cloth

Item	Glass fiber strengthened ceramic fiber cloth	Steel wires strengthened ceramic fiber cloth
Working Temp(°C)	650C	1050C
Raw material	Aluminum silicate ceramic fiber + glass fiber	Aluminum silicate ceramic fiber +wire
Organic Content(°C)	≤15	
Density(KG/m3)	500-550	
Moisture content	≤2	
Meridional Density	56-60piece/10cm	
Zonal Density	24-30piece/10cm	
Size(mm)	Length: 30000mm; Width : 100mm;Thickness: 1.5-6mm; As customer's requirement.	
Certificate	CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH	



Ceramic Fiber Tape

Item	Glass fiber strengthened ceramic fiber tape	Steel wires strengthened ceramic fiber tape
Working Temp(°C)	650C	1050C
Raw material	Aluminum silicate ceramic fiber + glass fiber	Aluminum silicate ceramic fiber +wire
Organic Content(%)	≤15	
Density(KG/m3)	500-550	
Moisture content	≤2	
Meridional Density	56-60piece/10cm	
Zonal Density	24-30piece/10cm	
Size(mm)	Length: 30000mm Width : 15-50mm Thickness: 1.5-6mm As customer's requirement.	
Certificate	CE,ISO9001-2008; ISO14001-2004,SGS, ROHS,SASO, REACH	

Ceramic Fiber Products with Al Foil



Product Introduction

SUNTHERM Ceramic Fiber Products with full Al foil is on the basis of ceramic fiber products, the al foil is stuck smoothly on the product's surface by using a special adhesive. As a layer of al foil is added on the surface, it prevents the heat transport from blanket to air and reflexes radiant heat effectively, and highly increases the thermal insulation property. And It can dispel your worrying about the allergic skin when touch it, and also plays the important role in preventing the damp and dust.

- Products series**
- (1) Ceramic fiber blanket with al foil**
 - (2) Ceramic fiber board with al foil**
 - (3) Ceramic fiber paper with al foil**

Product Features

- Damp-proof ,dust-proof , skin-protected
- Excellent heat stability and thermal shock resistance
- Good sound absorption property
- Resistance to wind and erosion, long service life
- Low heat capacity, low thermal conductivity
- High strength and excellent mach-inability

Product Application

- Kinds of Petrochemical industry , Power industry , Construction industry & Metallurgy industry: thermal insulation of Waste heat recovery coke oven, hot-blast stove, CSP and other auxiliary facilities for heating furnace, pipelines etc
- For high air flow, mechanical damaging large areas of industrial furnace wall lining, door and roof seals
- Construction, fire doors, fire wall fire insulation
- High-temperature pipe wall lining
- Power boiler, gas turbine and heat and nuclear power insulation
- Chemical industrial high temperature equipment and heating equipment lining
- Fireproof and heat insulation for high building
- High-grade household appliances thermal insulation device
- Shipping, aviation, precision industrial equipment
- Heating equipment, household appliances, other high-end applications

Ceramic Gas Log



Product Introduction

SUNTHERM Ceramic fiber gas logs use high-quality high-aluminum ceramic fiber bulk. After crushing, pulping, slag removal, mixing, etc., added inorganic binders, and using various shapes of molds are formed by vacuum suction filtration. The ceramic fiber gas logs look just like real wood logs, the temperature up to 1200°C, you'll even see some orange or red hot spots under the logs while burning. It's very safe, burn clean and do not release any ash or residue into the air. Keep your family safe from any toxic fumes.

Product Features

- the product will not fade, change color or smell after preheating
- Realistic looking
- Hand painting
- Light weight
- Vent free
- Easy assembly

Product Application

- Ventilated gas fireplace
- Outdoor gas fireplace, indoor gas fireplace
- Electric fireplace
- Bio-ethanol fireplace
- Gel fireplace
- Gas fire pit
- propane fireplace

Rock Wool



Product Introduction

SUNTHERM Rock Wool is the most economic light weight insulating material. Adopt unique production technology, not only has the performance of heat preservation and fire prevention, but also can save energy and reduce emissions.

- Products series**
- (1) Rock wool board
 - (2) Rock wool blanket
 - (3) Rock wool blanket with wire mesh

Product Features

- Service temp 750°C; Flame spread index 0;
- Excellent non-flammability.
- Excellent fiber strength
- High hydrophobic
- Low moisture absorption
- Low water absorption
- Excellent anti-humidity performance
- Low shot content
- Excellent heat presentation
- High quality raw materials and high temperature technology ensure the products of the prevention and no flaming droplets or toxic fumes generated

Product Application

- Sound insulation and fireproof material for curtain walls
- Firewall, fire door, fire filler
- Sound insulation and fire protection of elevator
- Boilers, ovens and other heating processing equipment
- Electrical equipment, flue, chimney lining

Ceramic Fiber Blanket Production Line

Capacity : 2000/3000/5000tons/year -as customers' request to custom



Ceramic Fiber Blanket Production Line is the equipment to manufacture the ceramic fiber blanket. The principle of operation of the production line: the calcined kaolin or other raw materials mixed feed to melting furnace, the raw materials will keep melting average in the furnace and then the lava will flow down to the spun rollers of spun machine, that's will make the lava converted to fiber, and then the fiber will into the cotton machine, through the conveyor belt into needling machine, the needling machine will according the demand make the fiber converted to blanket, the ceramic fiber blanket will through the drying furnace to formed shape, the end pass the cutting machine and clot.

SUNTHERM design our ceramic fiber blanket production line, study some new technology, and constantly improve the technology to produce higher quality products.

Ceramic Fiber Board Production Line

Capacity : 10-80tons/day-as customers' request to custom



Ceramic Fiber Board Production Line is the equipment to manufacture the ceramic fiber board. After beating, mixing, slag removal, cotton washing, steam water separation, molding, drying, cutting and other production processes, final forming.

SUNTHERM design our ceramic fiber board production line, study some new technology, and constantly improve the technology to produce higher quality products.

Ceramic Fiber Paper Production Line

Capacity : 1000/1350tons/year-as customers' request to custom



Ceramic Fiber Paper Production Line is the equipment to manufacture the ceramic fiber paper. After beating, mixing, slag removal, cotton washing, steam water separation, molding, drying, cutting and other production processes, final forming.

SUNTHERM design our ceramic fiber paper production line, study some new technology, and constantly improve the technology to produce higher quality products.

Rock Wool Production Line

Main energy supply system : Raw coal or Power energy supply system

Capacity : 20000/25000/30000tons/year-as customers' request to custom



Rock Wool Production Line, the raw materials used in rock wool production include basalt, dolomite, binders, etc. The raw materials are loaded into the hopper by the elevator, and the melting furnace is heated and melted into the melt flow tank. The lava flow is cooled and spun into fibers by the centrifuge, and then sprayed into the fiber molding room. The binder is added during the spraying process, and the fibers are heated by the negative pressure wind. Pull down to the mesh belt to form the original felt. The mesh belt transports the original felt to the pendulum cloth machine to swing the cloth. The original felt after the swing cloth is transported to the curing furnace by the cloth machine, and runs forward between the upper and lower chain belts. The hot air blower blows the hot air into the curing furnace. The cotton felt in the furnace is solidified, and the solidified products are cut, first longitudinally cutting, and then transversely cutting, and the finished product is packaged and put into storage.