





Hengrui 恒瑞
高温节能材料有限公司



HENGRUI

High-Temperature

Thermal Insulation Technology Since 2010.

CATALOGUE

High Temperature Solutions

Refractory Ceramic Fibers

Biosoluble Fibers

Polycrystallines fibers

Microporous Nano Products

Aerogel Products

Lightweight Mullite Bricks



INTRODUCTION

Zhumadian Hengrui High-temperature Energy-saving Material Co., Ltd. is a leading high-tech manufacturer specializing in advanced thermal insulation solutions. With a focus on innovation and energy efficiency, we provide high-performance materials for the world's most demanding industrial environments.

Production Excellence With an annual capacity exceeding **10,000 tons**, we utilize advanced manufacturing techniques to deliver precision-engineered products for the Metallurgy, Petrochemical, Glass, Aerospace, and Electronics industries.

Comprehensive Product Portfolio

- **Ceramic Fiber Solutions:** Blanket, Board, Paper, Modules, and Vacuum-Formed Shapes
- **High-Temperature Fibers:** Polycrystalline Fibers (PMF)
- **Bio-soluble Fibers**
- **Advanced Insulation:** Microporous Nano products and Aerogel materials.
- **Refractory Bricks:** Lightweight Mullite Bricks.
- **Specialty Chemicals:** High-temperature binders and coatings.

Engineering & Services

We go beyond manufacturing by offering specialized thermal engineering design and technical support. Our business is built on **Quality, Integrity, and Technology**. We welcome global partners to collaborate with us in driving industrial energy savings and sustainable development.

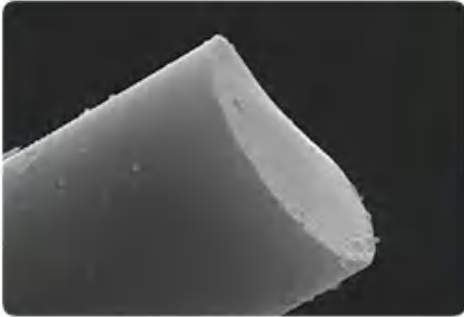
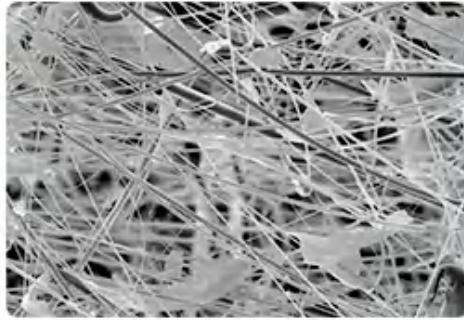
HENGRUI

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Thermal Insulation Technology Since 2010.

Ceramic Fiber Wool

Product Data Sheet



Product Description

Hengrui High Temperature produces various types of fiber loose cotton, using high-quality coal gangue raw materials and advanced automation equipment to produce two types of process fibers: blowing and spinning. At the same time, according to the different environmental protection standards required by different markets, we also provide ceramic

Feature

Excellent thermal stability, not easy to powder at high temperature

Low thermal conductivity

Excellent thermal shock resistance

Excellent chemical stability

Under high temperature still keep good elasticity

Ceramic Fiber Wool

Product Data Sheet

Properties	1260 Ceramic fiber Wool	1430 Ceramic Fiber Wool	1500 Ceramic Fiber Wool	1600PCW Wool
Color	white	white	Green	white
Classification Temperature°C	1260	1430	1500	1600
Continuous Use Temperature, °C	1060	1230	1300	1500
Density, kg/m ³	80	80	80	80
Permanent Linear Shrinkage, %,24 hours				
1000°C	<4			
1300°C		<4		
1400°C			<4	
1500°C				<1
Chemical Composition, %				
Alumina, Al ₂ O ₃	44	36	42	72
Silica, SiO ₂	54	44	55	28
Zirconia oxide, ZrO ₂	-	15-16	3	-
Alumina+Silica	98	-	-	99
Thermal Conductivity, W/m·K				
600°C	0.15			0.064
800°C	0.22	0.21	0.19	0.094
1000°C	0.31	0.31	0.28	0.169
1300°C	-	-	0.3	0.25

Product Specification

Specification	Packing
Standard	Ceramic fiber wool by 20KG PP Woven bag
Non-Standard	Negotitate to confirm

Ceramic Fiber Blanket

Product Data Sheet

Product Description

The fiber blanket is made by cotton collection and mechanical needle punching. After the mechanical knitting process, its strength and surface integrity are improved. The knitting process is to force the fiber loose cotton to form a matrix without using chemical binders, thereby producing a continuous fiber blanket. High temperature resistant insulation cotton is a material suitable for high temperature environments, such as the insulation lining of metallurgical furnaces and furnaces, petrochemical heating furnaces and livestock furnaces.



Feature

- *Excellent thermal insulation effect
- *Not affected by most chemicals Superior thermal stability,
- *Good anti-powdering ability
- *Low heat storage
- *Spinning long fibers plus double-sided needle punching process produce tough, high-resilience and high-strength fiber blankets, tear-resistant before and after heating, heat-resistant and shock-resistant Good sound absorption effect

Application

High temperature resistant insulation wool is a material used in high temperature environments, such as the insulation lining of metallurgical furnaces and soldering furnaces, petrochemical industry heating furnaces and livestock furnaces. During use, high temperature insulation fibers can:

- *Protect people and objects from high temperatures
- *Reduce greenhouse gas emissions
- *Reduce energy consumption and improve furnace and process equipment efficiency

Ceramic Fiber Blanket

Product Data Sheet

Properties	1260Ceramic fiber blanket	1430Ceramic fiber blanket	1500Ceramic fiber blanket	1600PCW blanket
Color	white	white	Green	white
Classification Temperature°C	1260	1430	1500	1600
Continuous Use Temperature, °C	1060	1230	1300	1500
Density, kg/m ³	96/128	96/128	96/128	128/150
Tensile Strength KPa (128KG/M ³)	>75	>75	>75	>100
Permanent Linear Shrinkage, %,24 hours				
1000°C	<4			
1300°C		<4		
1400°C			<4	
1500°C				<1
Chemical Composition, %				
Alumina, Al ₂ O ₃	44	36	37	72
Silica, SiO ₂	54	44	50	28
Zirconia oxide, ZrO ₂	-	15-16	6	-
Alumina+Silica	98	-	-	99
Alumina+Silica+Zirconia oxide	-	99	-	
Thermal Conductivity, W/m·K				
600°C	0.15			0.064
800°C	0.22	0.21	0.19	0.094
1000°C	0.31	0.31	0.28	0.169
1300°C	-	-	0.3	0.25

Product Specification

Thickness (MM)	Width (MM)	Length (MM)	Packaging
10/12.5	610/1220	14400	Woven bag lined with waterproof film or small carton packaging (470*470*630mm)
15	610/1220	10000	
20/25	610/1220	7200	
30	610/1220	6000	
40	610/1220	4500	
50	610/1220	3600	

Alumina fiber blanket Specification

Thickness (MM)	Width (MM)	Length (MM)	Packaging
6	610	36000	Paper carton packaging
12.5	610	21600	
25	610	7200	

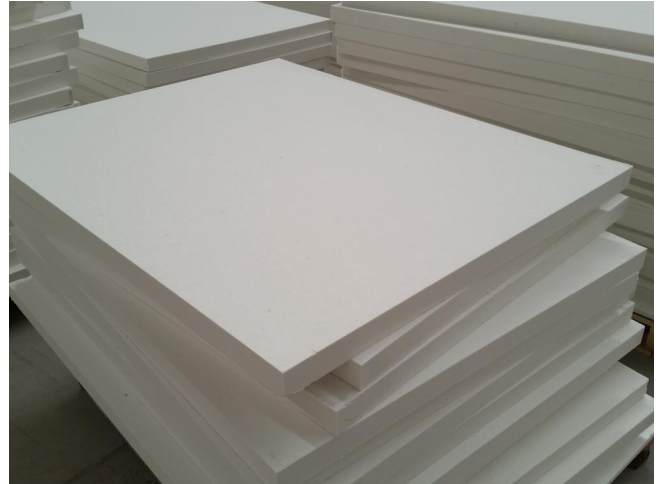
Ceramic Fiber Board

Product Data Sheet

Product Description

Fiberboard is a plate-shaped product made of fiber wool and organic and inorganic binders. It has small strength change at high temperature, light weight, excellent thermal shock resistance, and is suitable for rapid heating and cooling conditions. Compared with other insulation materials, it has higher mechanical strength. It has excellent effects in lining and supporting materials for high-temperature electric furnaces and various sintering furnaces.

The fiberboard we manufacture can be used as backing insulation material or installed as a hot surface application solution, covering gas furnace furnace and electric furnace lining.



Feature

Advantages of fiberboard in thermal equipment:

- Low heat capacity and low thermal conductivity
- Non-brittle material with good elasticity
- Wind erosion resistance and long service life
- Excellent thermal stability and thermal shock resistance
- Light weight and low heat absorption

Application

Fiber board is a material used in high temperature environments.

Such as heating furnaces and fluidized bed catalytic devices for ethylene cracking furnaces in the petrochemical industry, waste heat boilers in the energy and power industry, melting and insulation furnaces in the aluminum industry, heating furnaces, heat treatment furnaces, and galvanizing lines in the steel industry, and



Ceramic Fiber Board

Product Data Sheet

Properties	1140Ceramic fiber board	1260Ceramic fiber board	1350Ceramic fiber board	1430Ceramic fiber board
Color	off-white	white	white	white
Classification Temperature°C	1140	1260	1350	1430
Continuous Use Temperature, °C	950	1060	1150	1200
Density, kg/m ³	220	250/280/300/320	250/280/300/320	250/280/300/320
Permanent Linear Shrinkage, %,24 hours				
950°C	< 4			
1060°C		< 4		
1150°C			< 4	
1200°C				< 1
Chemical Composition, %				
Alumina, Al ₂ O ₃	36	42	47	34
Silica, SiO ₂	62	58	52	52
Zirconia oxide, ZrO ₂	-	-	-	13
Calcium oxide + Magnesium oxide, CaO + MgO	-	-	-	-
Other	< 1	< 1	< 1	< 1
Thermal Conductivity, W/m·K				
400°C	0.08	-	-	-
600°C	0.12	0.12	0.12	-
800°C	0.16	0.16	0.16	0.16
1000°C	-	0.23	0.23	0.23

Product Specification

Length (MM)	Width (MM)	Thickness (MM)	Packaging
1200	1000	10/20/30/40/50/60/70/80/90/100	Carton + pallet packaging
1000	600	10/20/30/40/50/60/70/80/90/100	

Z-Block

Product Data Sheet

Product Description

The Z-Block module is made of a fiber needle blanket of corresponding material, processed on a special machine according to the fiber component structure and size.

During the processing, a certain proportion of compression is maintained to ensure that after the ceramic fiber module wall lining is completed, due to the expansion of each ceramic fiber module in the same direction, the ceramic fiber modules are squeezed into a seamless whole. The ceramic fiber modules can be directly fixed on the steel plate of the industrial kiln shell through various forms of anchors.

Feature

- The various anchors on the back of the modules allow the modules to be installed in parallel or in parquet
- After unbundling, the folded blankets will squeeze each other in different directions without gaps
- Elastic fiber blankets can resist mechanical forces
- The elasticity of the fiber blanket can compensate for the deformation of the furnace shell, so that there will be no gaps between the components
- Light weight and low heat absorption
- Low thermal conductivity can bring high energy saving

Application

High temperature resistant fiber modules are materials used in high temperature environments, such as metallurgical furnaces and soldering furnaces, petrochemical industry heating furnaces and livestock furnace insulation inner villages.



Z-Block

Product Data Sheet

Properties	1260Ceramic fiber module	1430Ceramic fiber module	1500Ceramic fiber module	1500PZr+MAF T E C Bmodule	1600PCW module
Color	white	white	Green	white	white
Classification Temperature°C	1260	1430	1500	1500	1600
Continuous Use Temperature, °C	1060	1230	1300	1400	1500
Density, kg/m ³	96/128	96/128	96/128	128/150	128/150
Tensile Strength KPa (128KG/M3)	> 75	> 75	> 75	> 100	> 100
Permanent Linear Shrinkage, %,24 hours					
1000°C	< 4				
1300°C		< 4			
1400°C			< 4		
1500°C				< 1	< 1
Chemical Composition, %					
Alumina, Al ₂ O ₃	44	36	37	72	72
Silica, SiO ₂	54	44	50	28	28
Zirconia oxide, ZrO ₂	-	15-16	6	-	-
Alumina+Silica	98	-	-	99	99
Alumina+Silica+Zirconia oxide	-	99	-		
Thermal Conductivity, W/m·K					
600°C	0.15			0.064	0.064
800°C	0.22	0.21	0.19	0.094	0.094
1000°C	0.31	0.31	0.28	0.169	0.169
1300°C	-	-	0.3	0.25	0.25

Product Specification

Length (MM)	Width (MM)	Thickness (MM)	Packaging
1500	300	300	Wooden plywood or plastic film
1200	300	300	
900	300	300	
600	300	300	
300	300	300	

Z-Block Anchor System

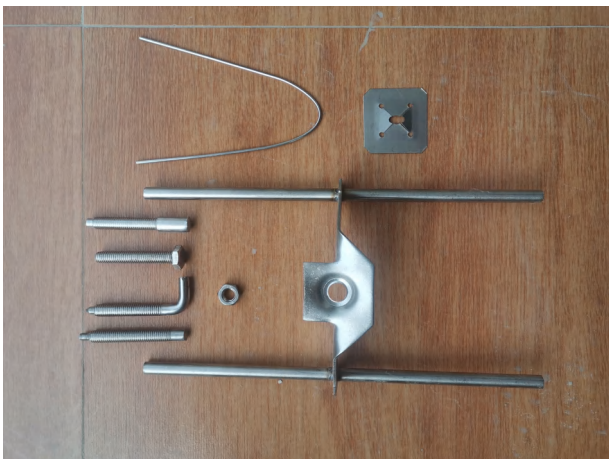
Product Data Sheet

Product Description

The Z-Block Anchors are structural parts that connect and fix lightweight refractory materials such as ceramic fibers, lightweight insulation bricks, and amorphous refractory materials to the metal wall panels of the kiln. Anchors of different structures and materials should be selected according to the structure of the industrial kiln, the furnace temperature, and the ambient atmosphere.

The new refractory lining products that replace traditional heavy refractory materials to simplify and speed up kiln construction and improve the integrity of the lining have promoted the progress of kiln masonry technology.

M Type Anchor



M Type Anchor



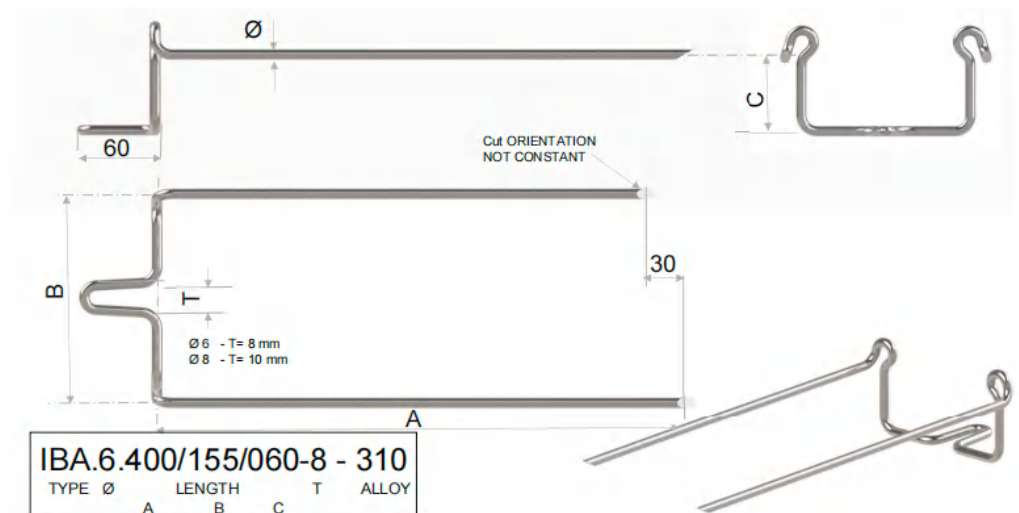
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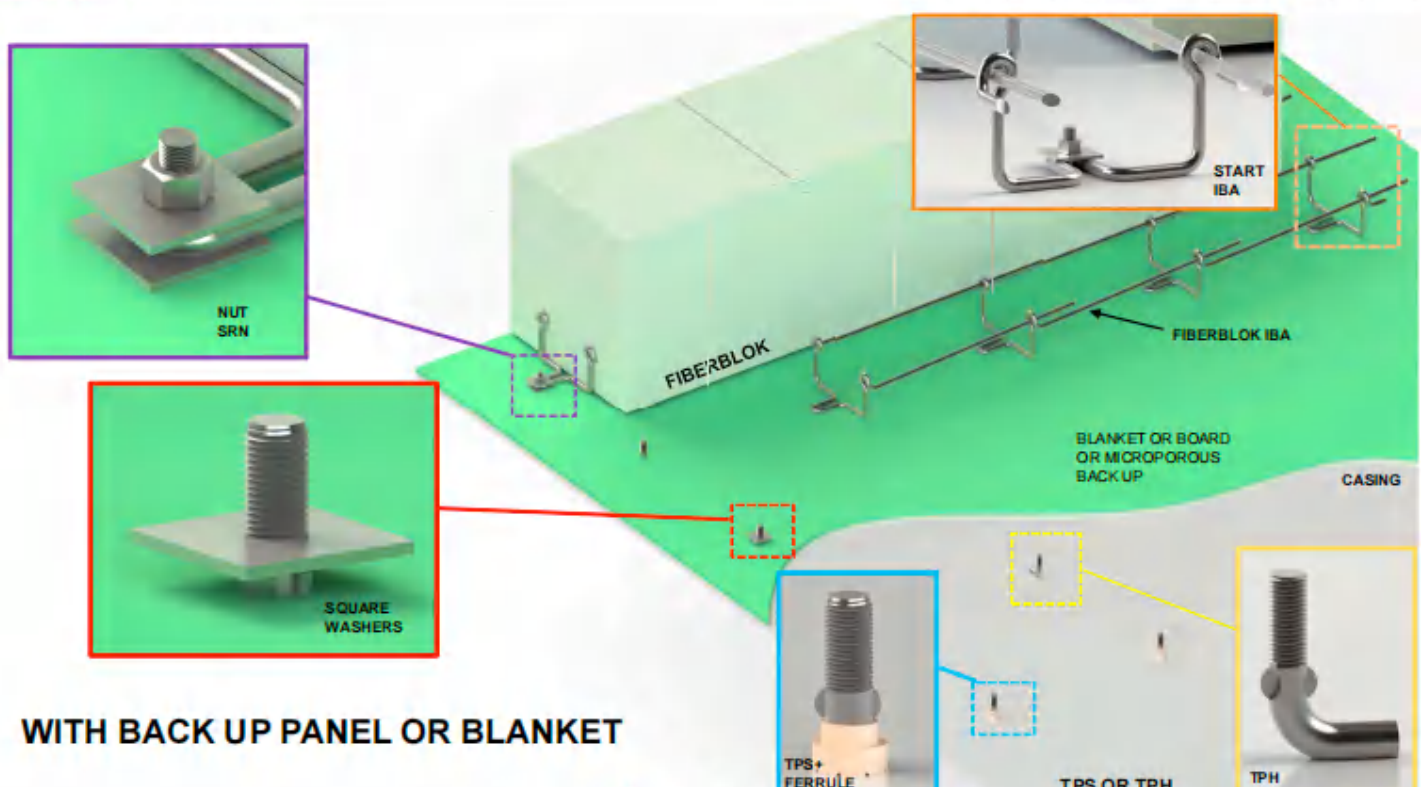
Z-Block Anchor System

Product Data Sheet

Direct Insertion Anchor



Anchor System Installation



Z-Block Anchor System *HENGRUI*

Product Data Sheet

Installation Instructions

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Step 2 : welding bolts

Step 1 : Positioning



Step 3 : Flat-backed carpet



Step 4 : Install the module and the compensation blanket.



Step 5 : Cut the straps, and the module will expand.



Step 6: Trim the module to give it a smooth and even appearance.



Vacuum Formed Shapes

Product Data Sheet

Product Description

Ceramic fiber vacuum-formed components are high-performance refractory products manufactured from ceramic fiber bulk. These components are produced through a specialized process involving vacuum suction molding followed by precision drying and sintering

Features

Thermal Resilience: Exceptional resistance to high temperatures and thermal shock.

Chemical Stability: Outstanding corrosion resistance against most acids and alkalis.

Mechanical Properties: High structural strength combined with excellent electrical insulation.

Lightweight: Low density and low heat storage, which significantly enhances energy efficiency.

Application

Due to their superior performance, these components are widely utilized across several high-tech sectors, including:

- **Aerospace:** Heat shields and engine insulation.
- **Automotive:** Exhaust system insulation and thermal barriers.
- **Electronics:** Precision high-temperature gaskets and kiln furniture.



Vacuum Formed Shapes

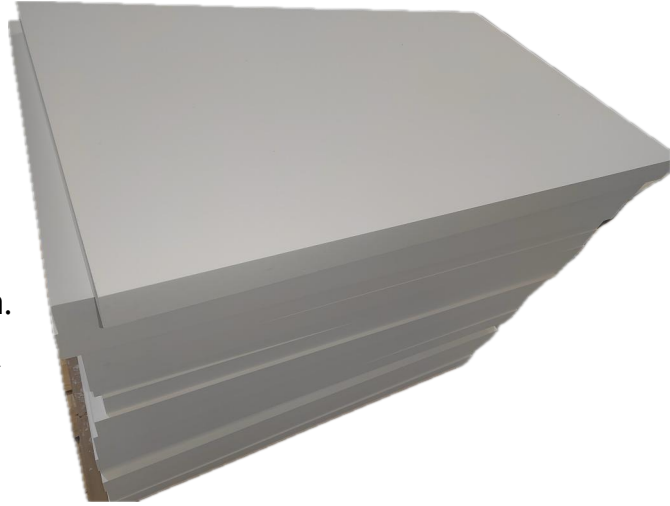
Properties	1260Ceramic fiber Vacuum formed Shapes	1350Ceramic fiber Vacuum formed Shapes	1430Ceramic fiber Vacuum formed Shapes
Color	white	white	white
Classification Temperature°C	1260	1350	1430
Continuous Use Temperature, °C	1060	1150	1200
Density, kg/m3	320/350	320/350	320/350
Permanent Linear Shrinkage, %,24 hours			
950°C			
1060°C	< 4		
1150°C		< 4	
1200°C			< 1
Chemical Composition, %			
Alumina, Al ₂ O ₃	42	47	34
Silica, SiO ₂	58	52	52
Zirconia oxide, ZrO ₂	-	-	13
Calcium oxide + Magnesium oxide, CaO + MgO	-	-	-
Other	< 1	< 1	< 1
Thermal Conductivity, W/m·K			
400°C	-	-	-
600°C	0.12	0.12	-
800°C	0.16	0.16	0.16
1000°C	0.23	0.23	0.23



Polycrystalline Mullite Fiber Board

Product Data Sheet

Polycrystalline mullite fiberboard is formed by wet vacuum filtration and pressure with polycrystalline mullite fiber loose wool and inorganic adhesive, and is calcined at high temperature according to different models. This product has the excellent characteristics of low bulk density and high strength. It is a multi-purpose product with higher mechanical strength. It has excellent effects on the lining and supporting materials of high-temperature electric furnaces and various sintering furnaces in clean workshop environments.



Features

Advantages of fiberboard in thermal equipment:

- High strength, high operating temperature, stable at high temperature
- Low thermal conductivity, low heat capacity flow erosion, easy installation and use.
- Thermal shock resistance, corrosion resistance, easy processing, easy cutting, precise thickness and size, good flame resistance and gas resistance
- Customizable processing

Application

Experimental electric furnace heating surface materials

Alumina & zirconia material sintering furnace

Silicon carbon rod & silicon molybdenum rod lining materials

Permanent magnet material & rare earth material sintering furnace equipment insulation

Polycrystalline Mullite Fiber Board Product Data Sheet

Polycrystalline Mullite Fiber & Alumina Fiberboard Technical Data Sheet					
Properties	1500Polycrystalline fiber board	1600Polycrystalline fiber board	1700Polycrystalline fiber board	1800Aluminum fiber board	1900Aluminum fiber board
Color	white	white	white	white	white
Classification Temperature°C	1500	1600	1700	1800	1900
Continuous Use Temperature, °C	1350	1500	1600	1700	1800
Density, kg/m ³	350/350/400	350/400	350	400	650/700
Permanent Linear Shrinkage, %,8 hours					
1400°C	<0.5				
1500°C		<0.1			
1600°C			<0.5		
1700°C				<0.5	
1750°C					+0.1to-0.2
Chemical Composition, %					
Alumina, Al ₂ O ₃	62	67	75	75	87
Silica, SiO ₂	37	32	24	24	12.5
Other	<1	<1	<1	<1	<0.5
Thermal Conductivity, W/m·K					
400°C	-	-	-		
600°C	0.11	0.14	0.12	0.12	0.11
800°C	0.15	0.17	0.15	0.16	0.14
1000°C	0.12	0.24	0.18	0.19	0.17

Polycrystalline Mullite Fiber board Product Dimensions

Length (MM)	Width (MM)	Thickness (MM)	Packaging
1000	600	25/30/40/50/60/70/80/90/100	Wooden case packaging



Ceramic Fiber Paper

Product Data Sheet

Product Description

The paper product is specially processed and has excellent performance, suitable for high temperature application environment; due to its unique high fire resistance and excellent non-wetting properties, it can replace traditional solutions and is suitable for applications that require direct contact with molten aluminum and have high requirements for stability and chemical resistance. Thermal insulation paper is extremely suitable for complex special-shaped parts, can be die-cut, and can be used in various application environments such as thermal insulation, especially suitable for use as gaskets, seals and separation media.



Feature

Fiber paper is extremely suitable for complex special-shaped parts, can be die-cut, and can be used in various application environments such as thermal insulation. It is especially suitable for use as gaskets, seals and separation media.

It also meets the regulatory requirements of the automotive, aerospace and industrial fields.



Application

High temperature resistant gaskets and seals

Refractory backing insulation

Filtration use

Ceramic Fiber Paper

Product Data Sheet

Properties	1260Ceramic fiber Paper	1350Ceramic fiber Paper	1430Ceramic fiber Paper
Color	white	white	white
Classification Temperature°C	1260	1350	1430
Continuous Use Temperature, °C	1060	1150	1230
Density, kg/m ³	200	200	200
Permanent Linear Shrinkage, %,24 hours			
1060°C	<4		
1150°C		<4	
1200°C			<4
Chemical Composition, %			
Alumina, Al ₂ O ₃	43	46	37
Silica, SiO ₂	62	53	49
Zirconia oxide, ZrO ₂	-	-	13
Calcium oxide + Magnesium oxide, CaO + MgO	-	-	-
Other	<1	<1	<1
Thermal Conductivity, W/m·K			
600°C	0.09	0.09	-
800°C	0.14	0.14	0.13
1000°C	0.2	0.2	0.18

Ceramic fiber paper size & package

Length (MM)	Width (MM)	Thickness (MM)	Packaging
60000	610/1220	1	Small carton packaging
30000	610/1220	2	
20000	610/1220	3	
15000	610/1220	4	
12000	610/1220	5	
10000	610/1220	6	

Ceramic Fiber & Bio-soluble Fiber Textiles

Product Data Sheet

Product Description

Ceramic fiber textiles are made of ceramic fiber as the base material, combined with alloy wire or alkali-free glass fiber to spin into ceramic fiber yarn. The yarn is made into fiber belts, cloth, sleeves and other products through textile technology. Ceramic fiber textile products

(I) Ceramic fiber braided rope (circular braiding/square braiding)

Industrial kiln furnace door, flue, brick masonry expansion joint sealing and insulation

Industrial kiln burner, heat exchanger, high-temperature pipe and valve sealing packing

(II) Ceramic fiber yarn twisted rope

Mostly used in the insulation field, insulation wrapping of cables, cable troughs, plates, and bridges

Insulation coating of industrial kiln burners and heat exchangers

Insulation wrapping of high-temperature pipe valves and flanges

Fuel equipment wicks, craft candle wicks

(III) Ceramic fiber wool twisted rope

Due to its loose structure, it is only used as insulation coating for equipment or pipelines

(IV) Ceramic fiber pipe sleeve rope

Fireproof wire, high-temperature cable coating

High-temperature pipe coating, set

High-temperature gasket



Ceramic Fiber & Bio-soluble Fiber Textiles

Product Data Sheet

Ceramic Fiber & Bio-soluble Fiber Yarn technical data sheet

Properties	650Ceramic fiber Yarn	1000Ceramic fiber Yarn	1200 Bio- Soluble Fiber Yarn	1200 Bio- Soluble Fiber Yarn
Color	White	White	Green	Green
Classification Temperature°C	1260	1260	1200	1200
Continuous Use Temperature, °C	650	1000	650	1000
Reinforced Material	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel
Organic Content(%)	<18	<18	<18	<18

Ceramic Fiber & Bio-soluble Fiber Round & Square Braided Rope technical data sheet

Properties	650Ceramic fiber Round / Square Braided	1000Ceramic fiber Round / Square Braided	1200 Bio- Soluble Fiber Round /Square Braided	1200 Bio- Soluble Fiber Round /Square Braided
Color	White	White	Green	Green
Classification Temperature°C	1260	1260	1200	1200
Continuous Use Temperature, °C	650	1000	650	1000
Density, kg/m ³				
Reinforced Material	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel
Organic Content(%)	<18	<18	<18	<18

Ceramic Fiber & Bio-soluble Fiber Twisted Rope technical

Properties	650Ceramic fiber Twisted Braided	1000Ceramic fiber Twisted Braided	1200 Bio-Soluble Fiber Twisted Braided	1200 Bio- Soluble Fiber Twisted Braided
Color	White	White	Green	Green
Classification Temperature°C	1260	1260	1200	1200
Continuous Use Temperature, °C	650	1000	650	1000
Reinforced Material	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel
Organic Content(%)	<18	<18	<18	<18

Ceramic Fiber & Bio-soluble Fiber Textiles

Product Data Sheet

Ceramic Fiber & Bio-soluble Fiber Tape technical data sheet

Properties	650Ceramic fiber Tape	1000Ceramic fiber Tape	1200 Bio-Soluble Fiber Tape	1200 Bio-Soluble Fiber Tape
Color	White	White	Green	Green
Classification Temperature°C	1260	1260	1200	1200
Continuous Use Temperature, °C	650	1000	650	1000
Reinforced Material	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel
Organic Content(%)	<18	<18	<18	<18

Ceramic Fiber & Bio-soluble Fiber Cloth Technical data sheet

Properties	650Ceramic fiber Cloth	1000Ceramic fiber Cloth	1200 Bio-Soluble Fiber Cloth	1200 Bio-Soluble Fiber Cloth
Color	White	White	Green	Green
Classification Temperature°C	1260	1260	1200	1200
Continuous Use Temperature, °C	650	1000	650	1000
Density, kg/m3				
Reinforced Material	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel
Organic Content(%)	<18	<18	<18	<18

Mullite Insulating Refractory Brick

Product Data Sheet

Mullite heat-insulating refractory bricks, also known as mullite refractory bricks, are made of high-purity refractory raw materials, using the advantages of raw materials with different crystal phases, adding organic composite fillers, vacuum extrusion molding, and high-temperature sintering to produce lightweight mullite bricks. The product meets the requirements of the national standard GB/T35845-2018.



Features

- Low heat capacity, low thermal conductivity
- High purity, low impurity content, corrosion resistance
- High temperature resistance, can be used as insulation layer and refractory layer
- Excellent thermal stability and thermal shock resistance
- Precise size, can be processed and cut

Application

Ceramic kiln refractory insulation

furnace lining

Industrial heat treatment kiln lining



Mullite Insulating Refractory Brick

Product Data Sheet

Properties	MG-23	MG-26	MG-28	MG-30	MG-32
Color	white	white	white	white	white
Classification Temperature°F	2250	2550	2750	2950	3150
Classification Temperature°C	1260	1400	1510	1620	1730
Density, g/cm ³	0.6	0.85	0.95	1.05	1.35
Permanent Linear Shrinkage, %,12 hours	1230°C -1.5—0.5	1400°C -1.5—0.5	1510°C -1.5—0.5	1620°C -1.5—0.5	1730°C -1.5—0.5
Chemical Composition, %					
Alumina, Al ₂ O ₃	40	55	65	70	77
Fe ₂ O ₃	<1	<0.9	<0.7	<0.6	<0.5
Thermal Conductivity, W/m·K					
200°C	0.18	0.28	0.35	0.42	0.56
350°C	0.20	0.30	0.37	0.44	0.60
600°C	0.22	0.33	0.39	0.46	0.64
Resistance under load T0.05MPa/°C	1080	1250	1360	1470	1570
d Crushing Strength/MPa	1.0	2.0	2.5	3.0	3.5
	0.2	0.5	0.5	1.0	1.0
	0.9	1.8	2.2	2.7	3.2

Mullite Insulating Refractory Brick Product Size& package

Length (MM)	Width (MM)	Thickness (MM)	Packaging
230	114	65	Carton + pallet packaging
250	124	76	

Microporous Nano Products

Product Data Sheet

Microporous Nano high-temperature insulation board is made of high-temperature-resistant nano-level inorganic materials through a special process. This material has ultra-low thermal conductivity, and its thermal insulation performance is 3-4 times that of traditional thermal insulation materials. It has multiple temperature sections and multiple



Features

- Low thermal conductivity
- Environmental protection and safety
- Small heat storage
- Long service life
- High temperature resistance

Application

Various types of high-temperature furnaces, high-temperature pipelines, fuel cells, rescue cabins, black boxes, furnace temperature trackers, elevator fire doors, etc.



Microporous Nano Products

Product Data Sheet

Properties	MN-650	MN-1000
Color	Gray	Gray
Classification Temperature°C	650	1000
Density, g/cm ³	220-350	220-350
Permanent Linear Shrinkage, %,12 hours	600°C 2	1000°C 2.5
Chemical Composition, %		
Thermal Conductivity, W/m·K		
200°C	0.022	0.022
400°C	0.024	0.024
600°C	0.026	0.026
800°C		0.030
Rupture Strength (MPa)	>=0.3	>=0.3

Microporous Nano Products Size& package

Length (MM)	Width (MM)	Thickness (MM)	Packaging
1000	300	5-50	Carton + pallet packaging
900	500	5-50	

