



Zibo FOVO Advanced Material Co.,Ltd

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FOVO mainly produces polycrystalline mullite fiber and related products, ceramic fiber and related products. The products mainly include polycrystalline mullite fiber, 95% polycrystalline alumina fiber, ceramic fiber bulk cotton, ceramic fiber board, ceramic fiber blanket, ceramic fiber module, ceramic fiber mold lining (paper), ceramic fiber vacuum molding products, high-temperature adhesives, etc. The products are widely used in metallurgy, chemical industry, machinery, electronics, ceramics, glass enamel in industrial furnaces such as bell-type furnace, steel ladle, annealing furnace, heating furnace, hot-blast furnace, sintering furnace, resistance furnace, box-type furnace, roller kiln, pushed slab kiln and other industries, as its lining material, it has significant effects on energy saving and production increase, reducing temperature difference in furnace, improving product quality, extending furnace life, and improving working environment.

Our company has advanced production technology and equipment for production of polycrystalline mullite fiber and polycrystalline alumina fiber, and produces 800-1900 °C polycrystalline mullite (alumina) fiber products and high-temperature ceramic fiber products.

FOVO FIBER BOARD

Characteristics

Accurate size, surface smooth, thickness uniform, fiber distributed evenly

Good thermal stability and chemical stability

Low heat capacity, low thermal conductivity, low shrinkage

Good wind erosion resistance, long working life

Product Application

Various high temperature industrial furnace

Ceramic kiln, mechanical and metallurgical heat treatment furnace and other industrial furnace hot surface lining materials

Insulation materials for furnace door, kiln car, expansion joints, etc

Rare earth magnetic material melting furnace tundish, ladle furnace lining

Microwave penetration heating special board

Tunnel kiln roof

Product Specification

Items	FV-1600	FV-1700	FV-1800	FV-1900
Classification Temperature(C)	1600	1700	1800	1900
Bulk Density(kg/m3)	300-600	300-600	300-600	600-700

Linear Shrinkage (%)	<2 (1450C×24hrs)	<1 (1550C×24hrs)	<1 (1650C×24hrs)	<1 (1750C×24hrs)
Al ₂ O ₃	72	73	74	76
Al ₂ O ₃ +SiO ₂	>99	>99	>99.5	>99.5
Fe ₂ O ₃	<0.1	<0.1	<0.1	<0.1

Length×Width: 1000 X 600, 900 X 600, Thickness: 10mm-150mm, and customized.



FOVO HIGH TEMPERATURE FURNACE CHAMBER

Characteristics

Light weight, easy installation, fast heat up

Accurate sizes, long time usage, good heat insulation effect

Product Application

High temperature muffle lab chamber

MoSi₂/silicon carbide heating element chamber

High temperature vacuum chamber

Microwave experiment chamber

Product Specification

Item	FV-1400	FV-1500	FV-1600	FV-1700	FV-1800	FV-1900
Classification Temperature (°C)	1400	1500	1600	1700	1800	1900
Regular Shape	Flat board, semi-round type, round type, tube type, box type					
Size(mm)	According to drawings					



FOVO ELECTRIC RESISTANCE FURNACE CHAMBER

Characteristics

Light weight, easy installation, fast heat up

Accurate sizes, good heat insulation effect

Energy saving rate up to 30%

Product Application

muffle resistance lab chamber

Asphalt burning furnace chamber

Tube-type heating chamber

Well type resistance tape chamber

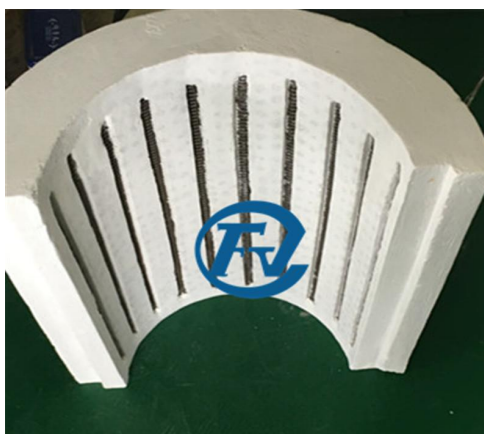
Heat treatment electric chamber

Product Specification

Item	FV-1400	FV-1500	FV-1600	FV-1700	FV-1800	FV-1900
Classification Temperature(°C)	1400	1500	1600	1700	1800	1900
Regular Shape	Flat board, semi-round type, round type, tube type, box type, well type					
Size(mm)	According to drawings					

There is 3 types of **resistance wire setting method**:

- 1.Embedding: for fine resistance wire
2. little part at outside: for low power resistance wire
- 3.Outside: for spiral resistance wire



FOVO SPECIAL SHAPED PRODUCTS

Characteristics

Good compression strength, tensile strength and bending strength

Accurate size

Low thermal conductivity, good thermal shock resistance

Heating and cooling fast

Good insulation effect

Product Application

Burner blocks

Observation port

Heating element support

Flue and pipe lining

Insulation layer

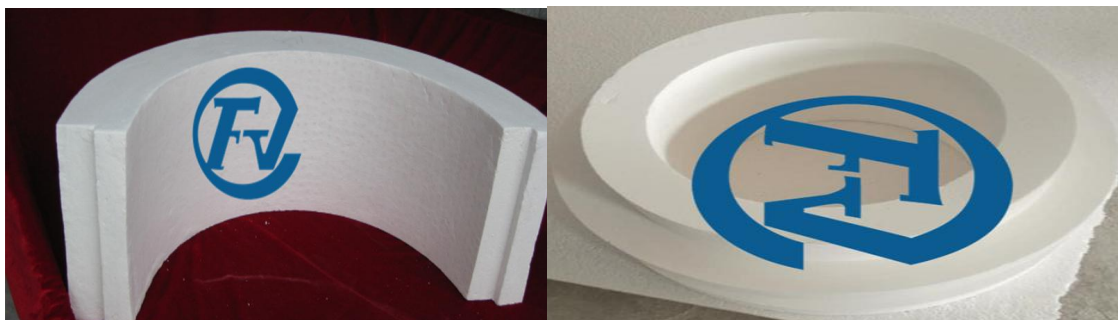
Anchorage and furnace door

Hot top furnace

Laboratory electric furnace inner tank

Product Specification

Items		FV-1600	FV-1700	FV-1800	FV-1900
Classification Temperature(C)		1600	1700	1800	1900
Bulk Density(kg/m ³)		300-600	300-600	300-600	600-700
Linear Shrinkage(%)		<2 (1450C×24hrs)	<1 (1550C×24hrs)	<1 (1650C×24hrs)	<1 (1750C×24hrs)
Chemical Composition%	Al ₂ O ₃	72	73	74	76
	Al ₂ O ₃ +Si O ₂	>99	>99	>99.5	>99.5
	Fe ₂ O ₃	<0.1	<0.1	<0.1	<0.1



FOVO 1600C CERAMIC FIBER MODULE

Characteristics

Ultra-high temperature resistance
 low thermal conductivity
 thermal shock resistance
 lightweight and modular design

Product Application

1. High-temperature Industrial Furnace Linings

Steel Metallurgy:

Permanent layer insulation for ladles and tundishes

Inner lining of heat treatment furnaces (annealing, quenching)

Glass Industry:

Back insulation for hot spots in glass melting furnaces

Upper insulation modules for tin baths

Ceramics/Refractory Materials:

High-temperature section lining for tunnel kilns and shuttle kilns

2. Petrochemical and Energy Equipment

Insulation layer for the radiant section of petrochemical cracking furnaces

Thermal insulation for hot air ducts in power plant boilers

Linings for polysilicon reduction furnaces

3. Laboratory and Specialized Equipment

All-fiber lining for laboratory high-temperature furnaces (muffle furnaces, tube furnaces)

Insulation barriers for single-crystal silicon growth furnaces

Aerospace material testing equipment

4. Other Harsh Environments

Insulation for molten aluminum flow channels/casting systems

Protection for the secondary combustion chamber of hazardous waste incinerators

ITEM		1600C Ceramic Fiber Module
Chemical Composition	Al ₂ O ₃	72%
	Al ₂ O ₃ +SiO ₂	>99%
Thermal	1250°C	0.337w/m.k

Conductivity	1350°C	0.387w/m.k
Linear Shrinkage 1450°C×24hr		1.5%
Classification Temperature		1600°C
Bulk Density		180±10kg/m ³

Characteristics	Traditional Refractory Bricks	1600C Ceramic Fiber Module
highest continuous operating temperature	≅ 1350C	≅ 1450C
Thermal shock resistance	Poor(easy to cracking)	Well(no peeling occurs during rapid cooling and heating)
installation	Nee to be constructed(3-5 days)	Modular assembly (finish within 1 day)

