Refractory Fiber

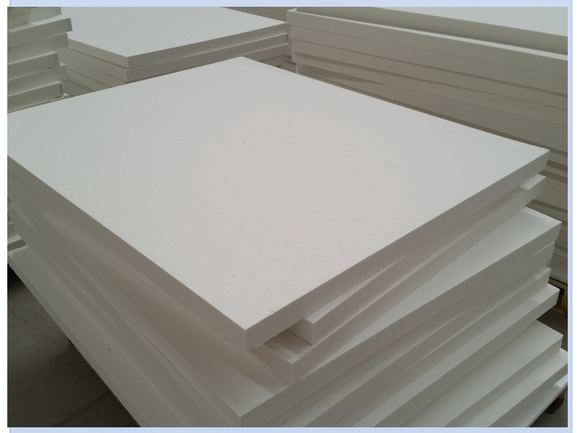
Hengrui 恒瑞
高温节能材料有限公司

Board

Product Introduction

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.



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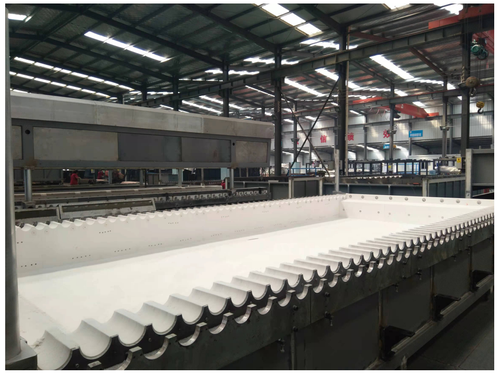
Board

Application

Fiberboard 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
tempering furnaces and hot bending furnaces in the glass industry.



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
- Good anti-stripping performance
- Easy to shape or cut

Aluminum Silicate Ceramic Fiber Board

Aluminum silicate ceramic fiber board technical 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/m3	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, Al2O3	36	42	47	34
Silica, Si02	62	58	52	52
Zirconia oxide, ZrO2	-	-	-	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

*Special sizes can be designed and manufactured according to customer requirements. For more specifications and detailed technical solutions, please contact our sales engineer.
The technical data of the product is the average value measured by the adopted test standard. The value will fluctuate within a certain range. This data does not represent the quality assurance data of the product.

Ceramic Fiber Board Products size

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	

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Inorganic Ceramic Fiber Board

Product Introduction

Inorganic Ceramic fiber board is a plate-shaped product made of fiber wool and organic and inorganic binders. After high-temperature heat treatment, the organic binder components are volatilized and the surface has good strength after hardening. 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 insulating materials, it has higher mechanical strength. It has excellent effect in lining and supporting materials for high-temperature electric furnaces and various sintering furnaces in clean workshop environments.

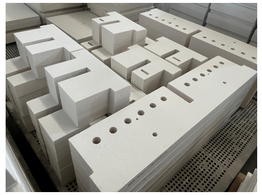
The ceramic fiber inorganic board we manufacture can be used as a backing insulation material or installed as a hot surface application solution, covering gas furnace and electric furnace linings.

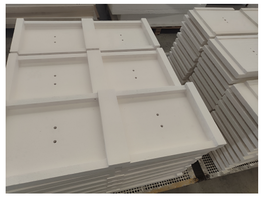
Application

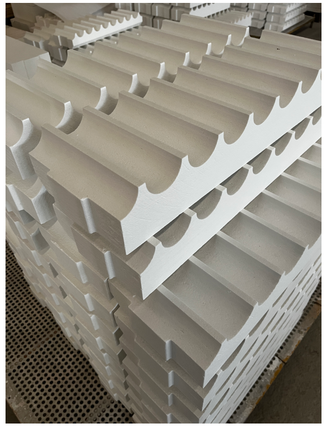
Thermal insulation layer in the lining of experimental electric furnaces

Insulation in the drying and sintering furnaces of photovoltaic silicon wafer silver paste screen printing lines

Insulation in semiconductor heat treatment equipment







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
- Good anti-stripping performance
- Easy to shape or cut

Inorganic Ceramic fiber board technical data sheet

Properties	1260Ceramic fiber board	1350Ceramic fiber board	1430Ceramic fiber board
Color	white	white	white
Classification Temperature℃	1260	1350	1430
Continuous Use Temperature, ℃	1060	1150	1200
Density, kg/m3	320/350	320/350	320/350
Permanent Linear Shrinkage, %,24 hours			
950℃			
1060℃	＜4		
1150℃		＜4	
1200℃			＜1
Chemical Composition, %			
Alumina, Al2O3	42	47	34
Silica, Si02	58	52	52
Zirconia oxide, ZrO2	-	-	13
Calcium oxide + Magnesium oxide, CaO + MgO	-	-	-
Other	＜1	＜1	＜1
Thermal Conductivity, W/m·K			
400℃	-	-	-
600℃	0.12	0.12	-
800℃	0.16	0.16	0.16
1000℃	0.23	0.23	0.23

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Inorganic Ceramic fiber board board product size

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

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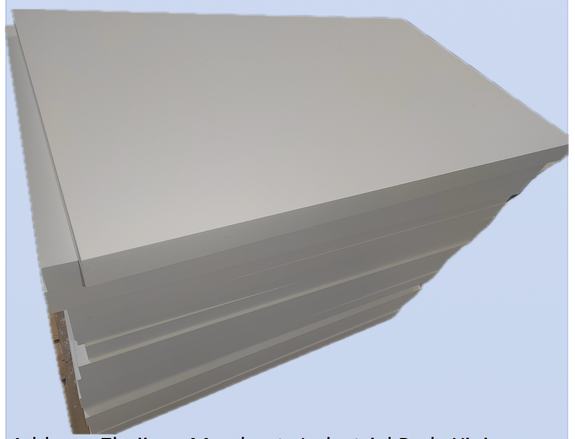
PCW Board

Product Introduction

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.
Alumina fiberboard is made of Mitsubishi MAFTEC fiber blanket as raw material, crushed and added with binder and hardener to make slurry, and then pressed by vacuum adsorption of high-pressure plate.
The polycrystalline mullite fiberboard and alumina fiberboard we manufacture can be used as hot surface furnace lining materials, which can directly contact high-temperature components such as electric heating alloys, silicon carbon rods, silicon molybdenum rods, etc., and the use range is below 1700 degrees Celsius.



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PCW Board

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

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

Refractory Fiber

Polycrystalline Mullite Fiber & Alumina Fiber Board

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℃	1500	1600	1700	1800	1900
Continuous Use Temperature, ℃	1350	1500	1600	1700	1800
Density, kg/m3	350/350/400	350/400	350	400	650/700
Permanent Linear Shrinkage, %,8 hours					
1400℃	＜0.5				
1500℃		＜0.1			
1600℃			＜0.5		
1700℃				＜0.5	
1750℃					+0.1To-0.2
Chemical Composition, %					
Alumina, Al2O3	62	67	75	75	87
Silica, Si02	37	32	24	24	12.5
Other	＜1	＜1	＜1	＜1	＜0.5
Thermal Conductivity, W/m·K					
400℃	-	-	-		
600℃	0.11	0.14	0.12	0.12	0.11
800℃	0.15	0.17	0.15	0.16	0.14
1000℃	0.12	0.24	0.18	0.19	0.17

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Polycrystalline Mullite Fiber & Alumina Fiberboard Product Dimensions

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

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