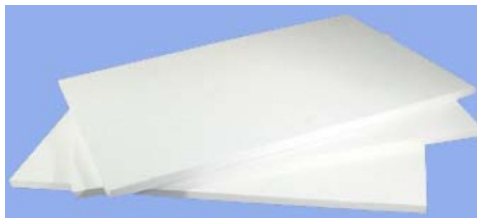


Ceramic Fiber Board

Skyline Components supplies two kinds of ceramic fiber boards. Standard ceramic fiber board is made of aluminum silicate ceramic fibers with a small amount of organic binders. Bio-soluble board is made of calcium/magnesium silicate fibers with a small amount of organic binders. The former board has lower cost. The later board meets European regulatory requirements (Directive 97/69/EC) due to its enhanced biosolubility. Both boards have good thermal insulation and light weight. They can be easily cut any shape to be installed in furnaces, ovens and stoves as thermal and electrical insulation materials. The binders will burn off at high temperature.



Characteristics

- o Low thermal conductivity
- o Excellent thermal stability
- o Excellent sound absorption
- o Thermal shock resistance
- o Excellent corrosion resistance
- o White color, and lightweight
- o Easy to cut, machinable

Specifications

Type		B10	B12	B14	B16	B18
Classification Temperature		1000°C	1260°C	1400°C	1600°C	1800°C
		1800°F	2300°F	2600°F	3000°F	3200°F
Density (kg/m ³)		250-400			300-600	
Flexural Strength (MPa)		0.5			0.6	
Thermal Conductivity (W/m/K)	@400°C	0.08	0.09		0.15	
	@600°C	0.13	0.14	0.1	0.19	
	@800°C	0.2	0.18	0.14	0.24	
	@1000°C			0.2	0.3	0.21
Shrinkage		≤ 3% (@800°C for 24 hours)	≤ 3% (@1000°C for 24 hours)	≤ 3% (@1260°C for 24 hours)	≤ 1% (@1430°C for 24 hours)	

Ceramic Fiber Board Handling

1. Handling: The products are fabricated by ceramic fibers that may cause itch and respiratory system discomfort. Please use mask and gloves when handling them.
2. Cutting and shaping: The material is soft. It can be cut by general wheel saw and utility knife. If large quantity is needed, die cut is a good choice
3. Use of adhesive to join:

We have A14 high temperature adhesive that is fabricated from high purity Alumina and Silicate raw materials. It is designed to bond ceramic fiber boards together.

 - Clear each surface to be bonded by removing contaminants and dust using a vacuum.
 - Mix the adhesive well because material may settle while transported or sitting.
 - Apply the adhesive to each surface to be bonded, and contact surfaces together. Apply light but firm pressure for 1 minute to allow for initial set, and then gently place the bonded piece aside in such a fashion that the bonding plane does not have any force acting on it except in the normal direction to the bonding plane. Excess adhesive may seep from the bond site.
 - Allow to dry at room temperature, or an elevated temperature (don't exceed 100°C), for about 24 hours.
4. Screw holding: when use screws to hold a board on a base, it's better to paint a layer a adhesive on both screws and the base.