

Ceramic Fiber Blanket

Skyline Components supplies two kinds of ceramic fiber blankets. Standard ceramic fiber blanket is made of aluminum silicate ceramic fibers. Bio-soluble blanket is made of calcium/magnesium silicate fibers. 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. No organic binders are used in the blankets.



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 Good flexibility, easy to wrap, shape, and cut

Specifications

Type		BL10	BL12	BL14	BL16
Classification Temperature		1000°C 1800°F	1260°C 2300°F	1400°C 2600°F	1600°C 3000°F
Density		96 kg/m ³ (6 lb/ft ³) or 128 kg/m ³ (8lb/ft ³)			128 kg/m ³ (8lb/ft ³)
Thermal Conductivity (W/m/K)	@400°C	0.07	0.07		
	@600°C	0.12	0.12	0.1	0.06
	@800°C	0.18	0.16	0.12	0.1
	@1000°C			0.19	0.14
Shrinkage		≤ 2% (@800°C for 24 hours)	≤ 2% (@1000°C for 24 hours)	≤ 2% (@1260°C for 24 hours)	≤ 1% (@1430°C for 24 hours)