

Manufactured Under



ThermalGreen

CERAMIC FIBRE BLANKETS

...the Ecofriendly Fibre Ceramic Blanket



Synopsis

Conventional Ceramic Fibres have been used frequently as an alternative for asbestos in order to protect materials and equipment against very High Temperatures. Nevertheless prudence is called for while processing and applying ceramic fibres (also called Conventional Ceramic Fibres). As they belong to the family of Mineral wool fibres, they are not Bio-soluble and have been categorized as “Probable Human Carcinogen” (category B2) by the International Agency for Research on Cancer.

ThermalGreen-TransCreek has launched ThermalGreen Bio – our bio-soluble /Alkaline Earth Silicate (AES) fibres. ThermalGreen offers Ceramic Blankets based on Biosoluble Fibres. These fibres are not hazardous for humans. When inhaled they will be dissolved by the bodily fluids in a biological way and thus evacuated from system.

ThermalGreen BIO Ceramic insulation can resist to a maximum service temperature of 1200 °C. These are lightweight fibres with a very low Thermal conductivity, a High tensile strength and a high Thermal shock and corrosion resistance. They can be applied in innumerable industrial industries such as the steel and aluminium industry, the furnace construction industry, etc.

Below are the areas of application and Properties of ThermalGreen Bio (Service Temp:1200 °C)

- **ThermalGreen BIO** Provides Easier Application
- **ThermalGreen BIO** offers Excellent Thermal resistance
- **ThermalGreen BIO** Provides High Thermal shock resistance
- **ThermalGreen BIO** has Low Thermal conductivity and heat storage

ThermalGreen BIO Areas of application

- Refractory construction
- Household appliances industry for boilers, hearths, furnaces, etc.
- Non-ferrous metallurgy, especially for aluminium
- Ceramic industry
- Petrochemical industry & Wherever Heat is ON,,,

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Type	Bio Soluble Ceramic Fibre Blanket	
Item Code	ThermalGreen BIO	
Temperature Grade	°C	1200
	°F	2192
Shot Content(%)	12	
Density	Kg/m³	96,128
	lb/ft³	6,8
Thermal Shrinkage (24 hrs)	%	≤2.5
	°C	1000
Thermal Conductivity (W/m.k) 128Kg/m³	200 °C	0.048
	400 °C	0.087
	600 °C	0.0135
Chemical Analysis		
SiO₂	%	55-65
CaO	%	23-35
MgO	%	5-10
Dimensions (mm)	Length : 3600 ~ 7200mm Width : 610 mm Thickness : 13 ~ 50 mm (Custom sizes are available upon request)	

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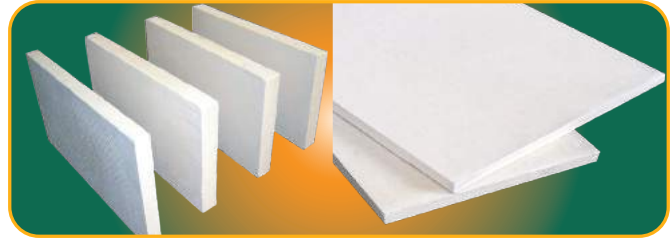
ThermalGreen[®] 1260

&

ThermalGreen[®] 1430



...the Ecofriendly Fibre Ceramic Blanket



ThermalGreen 1260

Density(kg/m ³)		Thickness		Roll Width (mm)	Roll Length (mm)
Min.	Max.	Min.	Max.		
64	160	6mm	50mm	610	7200 (till 25 mm) 5080(38mm) 3600(50mm)

ThermalGreen Ceramic Board

Density(kg/m ³)		Thickness		Width (mm)	Length (mm)	Temp. °C
Min.	Max.	Min.	Max.			
320	550	13mm	75mm	610	914	1260 to 1430



ThermalGreen 1430

Density(kg/m ³)		Thickness		Roll Width (mm)	Roll Length (mm)
Min.	Max.	Min.	Max.		
96	160	13mm	50mm	610	7200 (till 25 mm) 5080(38mm) 3600(50mm)

ThermalGreen Ceramic Paper/Tape/Rope

Type	Description	Thickness		Sizes/Density	Temp. °C
		Min.	Max.		
(a)	Paper	2mm	10mm	On Request	1260 to 1430
(b)	Tape	1inc.	3inc.		
(c)	Rope	6mm	30mm		

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ThermalGreen[®] 1260



Type	Ceramic Fibre Blanket	
Item Code	ThermalGreen[®] 1260	
Temperature Grade	°C	1260
	°F	2300
Recommended Service Temperature	°C	1050
	°F	1920
Density	Kg/m³	64,96,128,160
	lb/ft³	4,6,8,10
Thermal Shrinkage (24 hrs)	%	≤3
	°C	1150
Thermal Conductivity (W/m.k) 128Kg/m³	800 °C	0.15
	1000 °C	0.17
	1200 °C	-
Chemical Analysis		
Al₂O₃	%	45-47
Al₂O₃ + SiO₂	%	98.5
ZrO₂	%	-
Dimensions (mm)	Length : 3600 ~ 7200 mm Width : 610 mm Thickness : 6 ~ 50 mm (Custom sizes are available upon request)	

ThermalGreen[®] 1430



Type	Ceramic Fibre Blanket	
Item Code	ThermalGreen[®] 1430	
Temperature Grade	°C	1430
	°F	2600
Recommended Service Temperature	°C	1350
	°F	2460
Density	Kg/m ³	64,96,128,160
	lb/ft ³	4,6,8,10
Thermal Shrinkage (24 hrs)	%	≤3.5
	°C	1350
Thermal Conductivity (W/m.k) 128Kg/m³	800 °C	0.23
	1000 °C	0.31
	1200 °C	-
Chemical Analysis		
Al₂O₃	%	38-54
Al₂O₃ + SiO₂	%	82-90
ZrO₂	%	10-18
Dimensions (mm)	Length : 3600 ~ 7200 mm Width : 610 mm Thickness : 6 ~ 50 mm (Custom sizes are available upon request)	