



DESCRIPTION

Fiberfrax® Veneer Module is designed to use over existing refractory lining where such linings are in good condition and lower heat loss with improved refractory life is desired. In most cases, when the Modules are installed over a dense refractory, the payback from fuel savings is in a few months.

The Modules are composed of Fiberfrax® Durablanket strips, compressed together to form a block. They are installed by Mortaring over hot face of properly prepared existing refractory lining surface. These Modules are available over a wide range of densities, thicknesses & sizes. It offers effective engineering solutions to thermal management applications of various industries.

GENERAL CHARACTERISTICS

Fiberfrax® Veneer Module has the following outstanding characteristics :

- High temperature stability
- Low thermal conductivity & heat storage
- Resistance to thermal shock & chemical attack
- Easy installation & maintenance

TYPICAL APPLICATIONS

- Fired heaters & Reformers
- Heat treatment Furnaces / CGL
- Ladle & Soaking pit covers
- HRSG & WHRU
- Tunnel kilns & Intermittent kilns

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

*greener
cleaner
safer*
specialty fibers for
a greener, cleaner, safer world

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TYPICAL PRODUCT PARAMETERS

Fiberfrax® Veneer Module	Z	S
Typical Chemical Analysis (fibre wt. %)		
Al ₂ O ₃	30 - 34	42 - 47
SiO ₂	50 - 54	53 - 58
ZrO ₂	14 - 18	-
Fe ₂ O ₃	< 0.1	< 0.1
TiO ₂	< 0.3	< 0.3
Leachable Chlorides, ppm	< 10	< 10
Physical Properties		
Colour	White	White
Classification Temperature (°C)	1425	1260
Melting Point (°C)	1760	1760
Density (kg/m ³)	160 / 180 / 192	160 / 180 / 192
Mean Fibre Diameter (microns)	2.6 - 3.4	2.6 - 3.4
Fibre Index (%)	48 - 56	48 - 54
Shot Content (ASTM) (%)	8 - 14	10 - 15
Specific Gravity	2.65	2.65
Permanent Linear Shrinkage (%) 24 hour soak		
1200 °C	2.0 Max	3.0 Max
1260 °C	-	3.5 Max
1400 °C	3.3 Max	-

The maximum continuous use limit temperature for these products depends upon operating and application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

AVAILABILITY

Module Dimensions (mm)			AL3
Length	Width	Thickness	Per Carton
305	305	50	20
		75	14
		100	10

Other densities, thicknesses / sizes may be available on request subject to minimum order requirements.

THERMAL CONDUCTIVITY DATA (W/mK)

Mean Temp. (°C)	Density (kg/m ³)		
	160	180	192
600	0.16	0.15	0.14
800	0.20	0.19	0.17
1000	0.28	0.25	0.22
1200	0.37	0.33	0.28

Thermal Conductivity figures are empirical values (average) based on experience.

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Supplied by: