## **Product Information Sheet**

# **Fiberfrax**<sup>®</sup>

### Fiberfrax® Anchor-Loc3 Module

### DESCRIPTION

Fiberfrax® Anchor-Loc3 Module (bolting type) is designed to meet a wide range of application requirements in many types of heat processing equipments. Alkegen specifications require inorganic spun fibre blankets for construction of the Anchor-Loc3 Module. The spinning process produces a long, tough fibre that contributes to the strength & stability of the needled blanket. These Modules are manufactured in two standard construction forms folded or edge stack and are available over a wide range of densities, thicknesses & sizes. It offers effective engineering solutions to thermal management problems of various industries.

### **GENERAL CHARACTERISTICS**

Fiberfrax® Anchor-Loc3 Modules has the following outstanding characteristics:

- · High temperature stability
- · Low thermal conductivity & heat storage
- · Resistance to thermal shock & chemical attack
- Central fixation system
- · 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.

### TYPICAL PRODUCT PARAMETERS

Fiberfrax <sup>®</sup> Anchor-Loc3	Z	S			
Typical Chemical Analysis (fibre wt. %)					
Al <sub>2</sub> O <sub>3</sub>	30 - 34	42 - 47			
SiO <sub>2</sub>	50 - 54	53 - 58			
ZrO <sub>2</sub>	14 - 18	—			
Fe <sub>2</sub> O <sub>3</sub>	< 0.1	< 0.1			
TiO <sub>2</sub>	< 0.3	< 0.3			
Leachable Chlorides, ppm	< 10	< 10			



Fiberfrax <sup>®</sup> Anchor-Loc3	Z	S			
Physical Properties					
Colour	White	White			
Classification Temperature (°C)	1425	1260			
Melting Point (°C)	1760	1760			
Density (kg/m₃)	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 Alkegen Engineering office.



### Fiberfrax<sup>®</sup> Anchor-Loc3 Module

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### AVAILABILITY

Module Dimensions (mm)			AL3
Length	Width	Thickness	Per Carton
305	305	100	10
		125	8
		150	8
		175	6
		200	6
		225	4
		250	4
		275	4
		300	4

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

### ANCHOR ASSEMBLY



### THERMAL CONDUCTIVITY DATA (W/MK)

Mean Temp. (°C)	Density (kg/m³)		
	160	180	192
600	0.16	0.15	0.14
800	0.20	0.19	0.17
1000	0.28	0.25	0.17
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.

Note: All product data is nominal and does not represent a specification. All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences.

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