

Product Information Sheet

Fiberfrax®

Fiberfrax® Thread-Loc2 Module

DESCRIPTION

Thread-Loc2 Ceramic Fiber Monolithic modules from Anchor-Loc family extend the successful performance of standard Anchor-Loc folded modules to a product form featuring laminated fiber log construction.

The unique manufacturing technique used to fabricate Thread-Loc2 Modules bonds layers of ceramic fibre logs into a strong pliable fiber block. Spun ceramic fibre which feature high tensile strength for improved resistance to mechanical abuse, vibration and flue gas velocity are used in the construction of Thread-Loc2 blocks.

GENERAL CHARACTERISTICS

Fiberfrax® Thread-Loc2 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

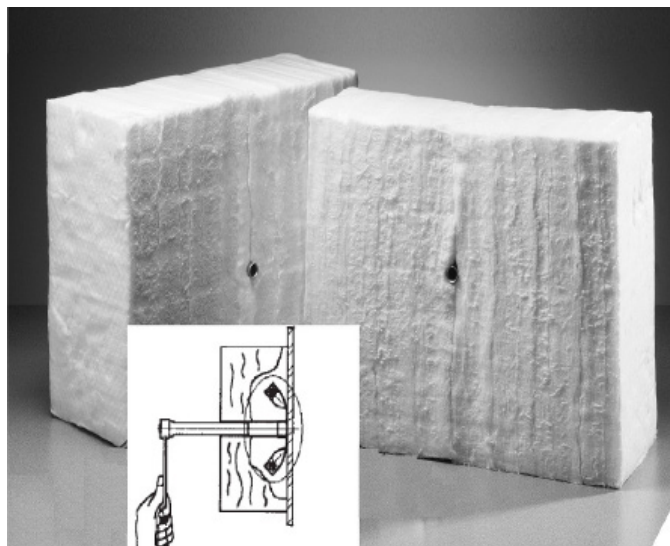
TYPICAL APPLICATIONS

- 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® Thread-Loc2	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



Fiberfrax® Thread-Loc2	Z	S
Physical Properties		
Colour	White	White
Classification Temperature (°C)	1425	1260
Melting Point (°C)	1760	1760
Density (kg/m ₃)	160/180/192/240	160/180/192/240
Mean Fibre Diameter (microns)	2.6 - 3.4	2.6 - 3.4
Fibre Index (%)	48 Min	48 Min
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.

ALKEGEN

Fiberfrax® Thread-Loc2 Module

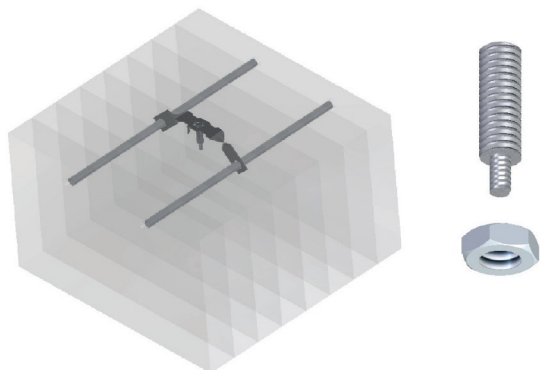
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AVAILABILITY

Module Dimensions (mm)			TL2
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



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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THERMAL CONDUCTIVITY DATA (W/MK)

Mean Temp. (°C)	Density (kg/m³)		
	160	180	192
600	0.16	0.15	0.14
800	0.2	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.

Alkegen

Email: info@Alkegen.com

Telephone: North America & Asia

716-768-6500

Europe, Middle East & Africa

1-800-635-4464

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