

Product Information Sheet

Fiberfrax

Fiberfrax® Durablanket® S

DESCRIPTION

The Fiberfrax Durablanket family of lightweight needled blankets are manufactured from Fiberfrax refractory ceramic fibres and provide effective solutions to a variety of thermal management problems. Fiberfrax Durablanket products offer superior insulating performance, excellent chemical resistance, flexibility and resilience. Fiberfrax Durablanket products are completely inorganic and so retain their strength, flexibility and thermal properties in many working environments, without the generation of smoke or fumes. Available in a wide range of density and thickness combinations, the Fiberfrax Durablanket range is one of the most versatile available to the market today

GENERAL CHARACTERISTICS

Fiberfrax Durablanket products have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity & heat storage
- High tensile strength & resiliency
- Resistance to thermal shock & chemical attack
- Good sound absorption

TYPICAL APPLICATIONS

- High temperature furnace and kiln linings
- Boiler insulations
- High temperature gaskets and seals
- Pipe and duct insulation



FIBERFRAX DURABLANKET S

Fiberfrax Durablanket S is a premium grade product made from spun 1250°C ceramic fibres. The extra long spun fibres make it one of the strongest blankets available. This coupled with its superior resilience make it particularly tough and suitable for applications involving further handling or in difficult environments.

Individual data sheets are available for the other products in the Durablanket range.

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.

ALKEGEN

Product Information Sheet



Fiberfrax® Durablanket® S

TYPICAL PRODUCT PARAMETERS

Durablanket S				
Typical Chemical Analysis (wt.%)				
SiO ₂	53.0 – 58.0			
Al ₂ O ₃	42.0 – 47.0			
Alkalis	<0.25			
Fe ₂ O ₃ + TiO ₂	<0.2			
Physical Properties				
Colour	White			
Classification Temperature (°C) *	1250			
Melting Point (°C)	1760			
Mean Fibre Diameter (microns)	3.25			
Specific Heat at 1000°C (J/kgK)	1140			
Permanent Linear Shrinkage (%) 24 hour soak				
1250 °C	2.6			
Density (kg/m³)	64	96	128	160
Thermal Conductivity (W/mK)				
Mean Temp.				
600 °C	0.18	0.14	0.12	0.11
800 °C	0.27	0.22	0.18	0.16
1000 °C	0.42	0.36	0.28	0.21
Tensile Strength (kPa)				
	35	55	75	95

*Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Alkegen Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

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The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

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AVAILABILITY

Thickness (mm)	Density (kg/m³)				Roll Length (m)
	64	96	128	160	
13		✓	✓	✓	14.64
19	✓	✓	✓	✓	10.00
25	✓	✓	✓	✓	7.32
38	✓	✓	✓	✓	5.00
50	✓	✓	✓		3.66

Standard roll width is 610mm. Other thicknesses / sizes may be available on request subject to minimum order requirements. Versions with aluminium foil and other coverings are available subject to order.

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
Headquarters
5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039
Telephone: 716-768-6500
Website: www.alkegen.com
Email: info@alkegen.com

