

DESCRIPTION

The Fiberfrax Durablanket family of lightweight needed 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

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.



***Start saving energy now.
Contact your local distributor.***

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FIBERFRAX DURABLANKET

Fiberfrax Durablanket is manufactured from blown Fiberfrax 1250°C ceramic fibre. The long interlocking fibres make it strong enough for most applications. The homogeneity of this product allows for excellent low thickness blankets, particularly suited to mould wrap applications.

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

TYPICAL PRODUCT PARAMETERS

	Durablanket
Typical Chemical Analysis (wt.%)	
SiO ₂	50.0 - 54.0
Al ₂ O ₃	46.0 - 50.0
Alkalis	<0.25
Fe ₂ O ₃ + TiO ₂	<0.2
Physical Properties	
Colour	White
Classification Temperature (°C) *	1250
Melting Point (°C)	1800
Mean Fibre Diameter (microns)	2.1
Specific Heat at 1000°C (J/kgK)	1009
Permanent Linear Shrinkage (%) 24 hour soak	
1250 °C	2.5
Density (kg/m³)	64 96 128
Thermal Conductivity (W/mK)	
Mean Temp.	
600 °C	0.16 0.15 0.14
800 °C	0.27 0.22 0.20
1000 °C	0.35 0.31 0.28
Tensile Strength (kPa)	
	20 45 60

*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 Unifrax Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

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AVAILABILITY

Thickness (mm)	Density (kg/m ³)	Roll Length (m)
6	96	128
10	✓	✓
13	✓	✓
19	✓	✓
25	✓	✓

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.

Supplied by: