

## 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.***

**Unifrax Ltd.**

T: +44 (0)1744 88 7600

F: +44 (0) 1744 88 9916

[www.unifrax.com](http://www.unifrax.com)

## 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.

## TYPICAL PRODUCT PARAMETERS

Durablanket S	
<b>Typical Chemical Analysis (wt.%)</b>	
SiO <sub>2</sub>	53.0 - 58.0
Al <sub>2</sub> O <sub>3</sub>	42.0 - 47.0
Alkalis	<0.25
Fe <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	<0.2
<b>Physical Properties</b>	
Colour	White
Classification Temperature (°C) *	1250
Melting Point (°C)	1760
Mean Fibre Diameter (microns)	3.25
Specific Heat at 1000°C (J/kgK)	1140
<b>Permanent Linear Shrinkage (%) 24 hour soak</b>	
1250 °C	2.6
<b>Density (kg/m<sup>3</sup>)</b>	<b>64 96 128 160</b>
<b>Thermal Conductivity (W/mK)</b>	
<b>Mean Temp.</b>	
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
<b>Tensile Strength (kPa)</b>	
	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 Unifrax Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

## AVAILABILITY

Thickness (mm)	Density (kg/m <sup>3</sup> )			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.

Supplied by:

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation. Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Italia, Unifrax Limited, Unifrax s.r.o.). Unifrax maintains a continuous programme of product development and reserves the right to change product specifications without prior notice. Therefore, it maintains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended. Similarly, insofar as materials not manufactured nor supplied by Unifrax are used in conjunction with or instead of Unifrax materials, the customer should ensure that all technical data and other information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials. All sales made by a Unifrax Corporation company are subject to that company's Terms and Conditions of Sale, copies of which are available on request.