FIBERFRAX DURABLANKET S

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS

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

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.

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.

Typcial Product Parameters

Typical Chemical Analysis (wt.%)

SiO_2	53,0 – 58,0
Al_2O_3	42,0 – 47,0
Alkalis	< 0,25
$Fe_2O_3 + TiO_2$	< 0,2

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TECHNICAL DATASHEET

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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

* 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 us. Where appropriate Physical Properties data measured accord-ing to EN 1094-1.

Permanent Linear Shrinkage (%) 24 hour soak

1250°C	2,6
Density (kg/m^3)	64, 96, 128, 160

Thermal Conductivity (W/mK)

Mean Temp.	64	96	128	160
200°C	0,057	0,056	0,052	0,058
400°C	0,088	0,087	0,080	0,080
600°C	0,180	0,140	0,120	0,110
800°C	0,270	0,220	0,180	0,160
1000°C	0,420	0,360	0,280	0,210
1200°C	0,658	0,560	0,446	0,298

Tensile Strength (kPa)

	35	55	75	95

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.

Availability

Thickness (mm)	*Density (kg/m^3)*				*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.

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