

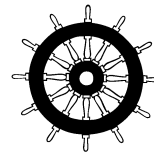
**FyreWrap<sup>®</sup> Blanket from Unifrax is a totally inorganic, flexible and lightweight high temperature insulation blanket, specifically designed for passive fire protection applications and for use in FyreWrap systems.**

The alkaline earth silicate chemistry is designed to provide enhanced solubility in simulated body fluids and meets the appropriate European and German regulatory requirements\*.

Unifrax's proprietary fibre manufacturing technology, combined with mechanical needling of the fibres, eliminates the need for binders in the product. This results in a material with high tensile strength, which is maintained after exposure to fire and superior thermal and acoustic insulation properties. FyreWrap Blanket is chemically stable and its thermal properties are unaffected after exposure to water immersion or high humidity.

FyreWrap Blanket provides fire protection insulation for a wide range of rated assemblies and systems, including systems designed to resist cellulosic, hydrocarbon and jet fires. Thin, lightweight systems, combined with a flexible and easy to install forms result in lower installation costs and significant weight savings. FyreWrap Blanket is available with and without a water repellent treatment and both grades are available with a variety of foil facings.

*\*Under Note Q of EU Directive 67/548/EEC and TRGS 905*



0062

### **FOIL FACED BLANKET**

FyreWrap Blanket in both standard and water repellent (WR) grades is available with a choice of foil facing. Aluminium foil and glass cloth are attached to the blanket surface in a process designed to apply less pressure to the blanket surface during application of the adhesive coating and the foil/cloth.

#### **FyreWrap SF<sup>™</sup> Blanket**

FyreWrap Blanket with a 30 micron aluminium foil bonded to one surface with a non-smoking, non-combustible adhesive.

#### **FyreWrap SFR<sup>™</sup> Blanket**

As for FyreWrap SF Blanket but with a square grid glass fibre mesh added to give added reinforcement. This product should be used when extra resistance to tearing is needed. SFR Blanket is non-combustible.

#### **FyreWrap SG<sup>™</sup> Blanket**

FyreWrap SG Blanket has a glass fibre cloth bonded to one surface. SG Blanket is non-combustible and is ideal for use where extra durability is required.

FyreWrap SF, SFR & SG Blankets are available with the covering on both top and bottom surfaces of the blanket and are designated SF2, SFR2 and SG2 respectively.

Any new and/or special use of these products, whether or not in an application listed in this datasheet, must be submitted to our technical department for their prior written approval.

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.

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### **Fire Protection Properties**

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- Non Combustible to IMO A 799 (19)
- Approved under EU Marine Equipment Directive (0062)
- Combustibility (per EN 13501-1) Euroclass A1
- Surface burning characteristics (as per ASTM E-84)
  - Flame Spread Rating 0.00
  - Smoke Developed Rating 0
- Toxicity Index (per NES 713 Issue 3) 0.00

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### **Typical Applications**

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Unifrax FyreWrap Blanket is suitable for use in a wide variety of passive fire protection applications including:

- IMO aluminium, steel and composite deck and bulkhead insulation in all types of craft
- Hydrocarbon and jet fire protection of vessels and pipes
- 'A' & 'H' class steel bulkhead & deck insulation for offshore oil platforms & FPSO's
- Cable tray fire protection
- Ductwork fire protection
- Protection of structural steelwork
- Infill of fire doors and lightweight cladding panels
- Cabin panel extensions
- Movement joints

**TYPICAL PRODUCT PARAMETERS**
**Physical Properties**

Colour	White
Linear Shrinkage (24 hour soak at 1200°C)	< 1.0%
Melting Point	> 1330°C
Loss on Ignition (LOI) - standard grade	< 0.1%
Product Density (nominal)	96,128 & 144 kg/m <sup>3</sup>
Water repellent coating (WR Grade)	< 1.0 wt. %
Water absorption (WR Grade) (weight gain per BS 2972 Section 12)	< 5.0%

**Thermal Conductivity Data (W/mK) kg/m<sup>3</sup>**

	96kg/m <sup>3</sup>	128kg/m <sup>3</sup>
200°C Mean Temp.	0.06	0.05
400°C Mean Temp.	0.09	0.08
600°C Mean Temp.	0.14	0.12
800°C Mean Temp.	0.22	0.18
1000°C Mean Temp.	0.34	0.29

**Thermal Resistance Values**

Blanket Thickness (mm)	25	38	50	75	100
R value (m <sup>2</sup> K/W)	0.73	1.10	1.46	2.19	2.93

Based on thermal conductivity of 96kg/m<sup>3</sup> density blanket, measured at 20°C to BS 874 section 2.1:1996 of 0.0347 W/mK

**Acoustic Insulation Performance**
**Sound Absorption Coefficient**

Frequency Hz	38mm x 96kg/m <sup>3</sup>	50mm x 96kg/m <sup>3</sup>
125	0.14	0.31
250	0.56	1.08
500	1.05	1.17
1000	1.16	1.13
2000	1.09	1.08
4000	1.06	1.03
5000	1.08	0.95
<b>Noise Reduction Coefficient</b>	<b>0.95</b>	<b>1.12</b>

Tests made to BS EN20354. For details of other thicknesses, please contact your local Unifrax office.

### Availability

Density kg/m <sup>3</sup>	Thickness mm				
	13	25	38	50	63
96		S/WR	S/WR	S/WR	
128	S	S/WR	S/WR	S/WR	S
144		S/WR		S/WR	
<b>Roll length m</b>	14.64	7.32	5.00	3.66	3.5

Standard roll width 610mm and 1220mm

S = Standard Grade WR = Water Repellent Grade

### Foil Faced Blanket Availability

Density kg/m <sup>3</sup>	Thickness mm				
	13	25	38	50	63
96	✓	✓	✓	✓	
128	✓	✓	✓	✓	
144		✓		✓	
<b>Roll length m</b>	14.64	7.32	5.00	3.66	3.5

Standard roll width 610mm and 1220mm

*Supplied by:*

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### Handling Information

A Material Safety Datasheet is available for this product.



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Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax Benelux, Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Italia, Unifrax Limited).

Unifrax maintains a continuous programme of product development and reserves the right to change product specification without prior notice. Therefore, it remains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended.

Similarly, insofar as material 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 such information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials.

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