



**FyreWrap**  
Fire protection materials

*When Fire Protection Matters Most  
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)

## DESCRIPTION

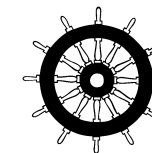
FyreWrap® Blanket from Unifrax is a totally inorganic, flexible and lightweight high temperature insulation blanket specifically designed for passive fire protection applications and for use in FyreWrap systems.

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 form 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.

## FIRE PROTECTION PROPERTIES

- Non Combustible to IMO A 799 (19)
- Classified A1 to EN 13501-1



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## TYPICAL APPLICATIONS

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

- Marine deck and bulkhead insulation in all types of craft
- Hydrocarbon and jet fire protection of vessels and pipes
- 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

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.

## TYPICAL PRODUCT PARAMETERS

Thermal Characteristics		
Ambient Insulation Performance		
Blanket Thickness (mm)	R Value	U Value
25	0.73	1.37
38	1.11	0.90
50	1.46	0.68
55	1.61	0.62
63	1.84	0.54

Based on thermal conductivity of FyreWrap Blanket 96 kg/m<sup>3</sup> density measured to BS EN 12667 at 10 °C of 0.0342 W/mK. For blanket densities above 96kg/m<sup>3</sup> the same values may be used.

Thermal Conductivity (W/mK)		
Mean Temp. (°C)	96kg/m <sup>3</sup>	128kg/m <sup>3</sup>
200	0.07	0.06
400	0.11	0.10
600	0.17	0.16
800	0.26	0.23
1000	0.36	0.31

Thermal Conductivity measured in accordance with ASTM C-201.

## AVAILABILITY

Standard Roll Sizes		
Thickness (mm)	Roll Length (m)	Density (kg/m <sup>3</sup> )
13	14.64	96, 128
25	7.32	96, 128, 144
38	5.0	96, 128
50	3.66	96, 128, 144

Non-standard combinations may be available upon request subject to minimum quantity orders.

### Un-faced Blanket

FyreWrap Blanket is available as standard with no additional treatment. It is also available as WR grade in which the fibres are lightly coated with a water repellent silicone treatment.

### Foil Faced Blanket

FyreWrap blanket in both standard and WR grades is available with a choice of facing.

**FyreWrap SF Blanket** with 30µm foil on one face.

**FyreWrap SFR Blanket** with 30µm foil & glass fibre mesh reinforcement on one face.

**FyreWrap SG Blanket** with glass fibre cloth bonded to one face.

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.

Acoustic Insulation Performance				
Sound Absorption				
Frequency (Hz)	25mm x 96kg/m <sup>3</sup>	38mm x 96kg/m <sup>3</sup>	50mm x 96kg/m <sup>3</sup>	
125	0	0.14	0.31	
250	0.18	0.56	1.08	
500	0.61	1.05	1.17	
1000	0.90	1.16	1.13	
2000	1.04	1.09	1.08	
4000	1.09	1.06	1.03	
5000	1.12	1.08	0.95	
<b>NRC</b>	<b>0.68</b>	<b>0.96</b>	<b>1.12</b>	

Test method BS EN ISO 354:2003. Foil facing will reduce the sound absorption characteristics.

## 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:

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