

Product Information Sheet

FyreWrap®

FyreWrap® LT Blanket

Description

FyreWrap® LT Blanket from Alkegen is a new lightweight, & flexible high temperature insulation blanket manufactured from Insulfrax low biopersistence fibres & is specifically designed for passive fire protection applications.

With its enhanced fibre properties, FyreWrap LT Blanket offers significant weight savings when compared with both traditional AES wool blankets and more particularly mineral wool based products. The modified fibre characteristics also give FyreWrap LT Blankets improved handling characteristics.

Thin, lightweight systems, combined with a flexible and easy to install form result in lower installation costs and significant weight savings. The fibres are totally inorganic and FyreWrap LT Blanket contains no binder no smoke or fumes are generated when exposed heat.

Fire Protection Properties

- Non Combustible to IMO FTP Code Part 1
- Classified A1 to EN 13501-1

Typical Applications

Alkegen FyreWrap LT 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
- 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.



**When Fire Protection Matters Most
Contact your local distributor.**

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Typical Product Parameters

Thermal Characteristics

Ambient Insulation Performance of 64kg/m³

Blanket Thickness (mm)	R Value	U Value
15	0.47	2.13
25	0.78	1.28
35	1.09	0.91
40	1.25	0.80
45	1.41	0.71
50	1.56	0.64
55	1.72	0.58
60	1.88	0.53

Based on thermal conductivity of FyreWrap LT Blanket 64 kg/m³ density measured to BS EN 12667 at 10°C of 0.0320 W/mK. For blanket densities above 64kg/m³ the same values may be used.

Ambient Insulation Performance of 48kg/m³

Blanket Thickness (mm)	R Value	U Value
40	1.24	0.81
50	1.55	0.65

Based on thermal conductivity of FyreWrap LT Blanket 48 kg/m³ density measured to BS EN 12667 at 10°C of 0.0323 W/mK.

Thermal Conductivity (W/mK)

Mean Temp. (°C)	64kg/m ³	96kg/m ³	128kg/m ³
400	0.11	0.09	0.08
600	0.17	0.14	0.12
800	0.26	0.20	0.18
1000	0.38	0.29	0.25

Thermal Conductivity measured in accordance with ASTM C-201.

Standard Roll Sizes

Thickness (mm)	Roll Length (m)	Density (kg/m ³)
15	12.5	64
25	7.32	64, 96, 128
35	5.0	70
38	5.0	96, 128
40	5.0	48, 70
45	5.0	64
50	3.66	48, 64, 70, 96, 128
55	3.66	64, 70
60	3.0 or 3.66	80

Acoustic Characteristics

Sound Absorption

Frequency (Hz)	50mm x 70kg/m ³	50mm x 96kg/m ³
125	0.47	0.26
250	1.05	0.94
500	1.09	1.03
1000	1.09	1.03
2000	1.12	1.09
4000	1.12	1.14
5000	1.18	1.09
NRC	1.10	1.00

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

Blanket Facings

FyreWrap LT Blanket can be supplied faced with choice of facing. The following grades are available :

- FyreWrap LTF Blanket with 30µm foil on one face.
- FyreWrap LTFR Blanket with 30µm foil & glass fibre mesh reinforcement on one face.
- FyreWrap LTG Blanket with glass fibre cloth on one face.
- FyreWrap LTFE Blanket is fully encapsulated in a 200µm reinforced aluminium composite scrim.
- FyreWrap LTF, LTFR & LTG blankets may also be available with the covering on both top and bottom surfaces of the blanket and are designated LTF2, LTFR2, and LTG2 respectively.

Standard roll width is 610mm or 1220mm. Other sizes may be available on request subject to minimum order requirements. FyreWrap LT Blanket may also be available as WR grade in which the fibres are lightly coated with a water repellent silicone treatment.



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The logo for FyreWrap, with 'Fyre' in red and 'Wrap' in black, followed by a registered trademark symbol.

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Handling Information

A Safety Data Sheet (SDS) 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.

Insulfrax fibre has a high solubility in simulated body fluids and hence carries no hazard classification, meeting stringent European regulatory requirements. Insulfrax fibres are exonerated from classification as hazardous (tested according to Note Q regulation (EC) No. 1272/2008).

For additional information about product performance or to identify the recommended product for your application, please email the Alkegen Application Engineering Group: applicationengineering@Alkegen.com.
Or telephone: +44 (0)1744 887625.