

Product Information Sheet

FyreWrap[®] LT Marine Blanket

Europe version

Introduction

FyreWrap LT Marine Blanket from Alkegen is a new lightweight, flexible, high-temperature insulation blanket designed as a superior alternative to traditional FyreWrap Marine Blanket for use in passive fire protection marine applications.

The fiber composition has been enhanced to provide better insulation performance and improved handling characteristics in an even lower weight blanket.

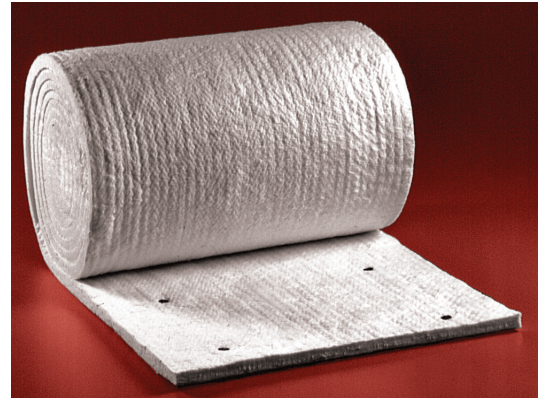
FyreWrap LT Marine Blanket is manufactured from low bio-persistence fiber so it is chemically stable and its thermal properties are unaffected after water immersion or exposure to high humidity.

Alkegen's proprietary fiber spinning technology combined with mechanical needling of the fibers eliminates the need for binders in the product which prevents fume and smoke generation when exposed to heat.

For more than 30 years, FyreWrap materials have provided lightweight fire insulation for structures exposed to both cellulosic and hydrocarbon fires on cruise ships, yachts, high-speed ferries, military defense vessels and offshore platforms.

Product Features

- Passive structural fire protection insulation for steel and aluminum bulkheads and decks
- Complies with SOLAS and IMO FTP Code; Res. MSC-307(88) - (2010 FTP Code)
- Non-combustible per IMO FTP Code Part 1
- Fire Resisting Division for High Speed Craft (HSC); Res. MSC.97(73)
- Type Approval and MED Module B Certs with US Coast Guard (USCG) Approval Numbers
- Flexible blanket is easy to cut and contour wrap around stiffeners and beams
- Combined fire, thermal and acoustic insulation



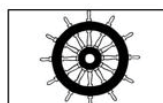
Applications

- Marine deck and bulkhead insulation
- Engine rooms
- Storage areas
- Vehicle loading bays
- Accommodation modules
- Hydrocarbon and jet fire protection of vessels and pipes
- Exhaust ducts and pipes
- Infill of fire doors and lightweight cladding panels
- Non-combustible insulation

Typical Product Properties

Melting Point	2390°F (1310°C)
Temperature Grade ⁽¹⁾	2300°F (1260°C)
Non-combustible	Per EN ISO 1182
Surface Burning	Per ASTM E84 Flame Spread = 0 Smoke Developed = 0
Marine Certifications	Lloyd's Register, DNV, BV USCG compliant

⁽¹⁾ Temperature Grade based upon European Norm 1094 (EN1094).



2690

Product Information Sheet



FyreWrap® LT Marine Blanket

Europe version

Typical Product Parameters

Thermal Characteristics		
Ambient Insulation Performance		
Blanket Thickness (mm)	R-Value (m ² K/W)	U-Value (W/m ² K)
25	0.78	1.28
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 measured to BS EN 12667 at 10°C of 0.0320 W/mK. For blanket densities greater than 64 kg/m³ the same values may be used.

Acoustic Characteristics		
Sound Absorption Coefficient		
Frequency (Hz)	50 mm x 70 kg/m ³	50 mm x 96 kg/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 using plain blanket. Foil facing will reduce the sound absorption performance.

Availability

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

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.

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.

Installation

FyreWrap LT Marine Blanket is available in a variety of thicknesses and densities. The material selected and its installation parameters depend upon the specific application and the required fire rating. Copies of current marine certifications (with USCG Approval Numbers) and system drawings are available on the Alkegen website. Additional information on thermal, acoustical and shock performance is available in the FyreWrap Marine Guide. Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information. Alkegen has a wide range of FyreWrap fire protection materials available to provide passive fire protection solutions in a variety of applications in the commercial building, industrial facility and transportation industries. For additional information about product performance or assistance identifying the recommended product for your fire protection application, please contact Alkegen Fire Protection Application Engineering at 716-768-6298.

The following is a registered trademark of Alkegen: FyreWrap.
The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

Form A-5253
Effective 06/23
© 2023 Alkegen
All Rights Reserved

Alkegen
Headquarters
5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039
Telephone: 716-768-6298
Website: www.alkegen.com
Email: Info@alkegen.com

