

FyreWrap® LT Marine Blanket

Introduction

FyreWrap LT Marine Blanket from Unifrax 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.

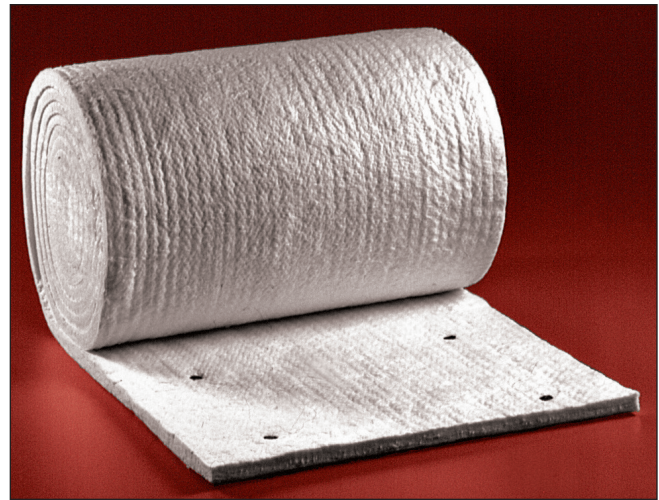
FyreWrap LT Marine Blanket is manufactured from low bio-persistence fiber so it is chemically stable and its thermal properties are unaffected after water immersion or exposure to high humidity.

Unifrax'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. A.754(18)
- Non-combustible per IMO FTP Code Part 1
- Fire Resisting Division for High Speed Craft (HSC); Res. MSC.45(65)
- Type Approval and MED Module B Certs with US Coast Guard (USCG) Approval Numbers
- Lloyd's Register (LR) MED Module D Certificate for North American manufacturing facility
- USCG Compliant per 46 CFR 164.107, 109 and 207
- New systems offer significant weight savings compared to original FyreWrap Marine Blanket
- Flexible blanket is easy to cut and contour wrap around stiffeners and beams
- Combined fire, thermal and acoustic insulation
- **Made in the USA**



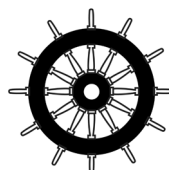
Applications

- 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, ABS, DNV, BV USCG compliant

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



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Typical Product Parameters

Thermal Characteristics		
Ambient Insulation Performance		
Blanket Thickness (mm)	R-Value	U-Value
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.

Standard Roll Sizes		
Thickness (mm)	Length (m)	Density (kg/m ³)
15	7.32	64
25	7.32	64
35	5.0	70
40	5.0	70
45	5.0	64
50	3.66	64, 70
55	3.66	64, 70
60	3.66	80

Standard width is 610 mm. Aluminum foil facing (1.5 mil) is available upon request. For availability of nonstandard dimensions, contact Customer Service at 716-768-6500. Minimum order quantity may apply.

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.

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 Unifrax website at <http://www.unifrax.com/product-resources/certifications/>.

Additional information on thermal, acoustical and shock performance is available in the FyreWrap Marine Guide, Form U-710 EN available at <http://www.unifrax.com/product-resources/brochures/>.

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

Unifrax 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 Unifrax Fire Protection Application Engineering at 716-768-6298.

The following is a registered trademark of Unifrax: 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 Unifrax. 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.

FyreWrap®

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