



FyreWrap®
Fire protection materials

DESCRIPTION

FyreWrap® Cable Insulation from Unifrax is a thin, flexible insulation wrap designed to provide a fire-protective enclosure around cable trays & conduits. The FyreWrap system ensures electrical circuit integrity during exposure to an external hydrocarbon fire permitting continued operation or controlled shutdown of critical equipment during emergency conditions.

The system which is listed by FM Approvals also complies with the API & ExxonMobil requirements on fireproofing for petroleum and petrochemical processing plants. Testing is to ASTM E-1725 "Fire Tests of Fire-Resistive Barrier Systems for Electrical System Components", requiring the highest level of performance for trays with zero to full cable loading and ASTM E-1529 circuit integrity ratings.

APPROVALS - COMPLIANCE

- FM Approvals - Wrap for Grouped Electrical Cables
- Complies with API 2218 "Fireproofing Practices in Petroleum and Petrochemical Processing Plants"
- Complies with ExxonMobil GP14-03-01 "Fireproofing" Specification.



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.*

Unifrax Ltd.

T: +44 (0)1744 88 7600

F: +44 (0)1744 88 9916

www.unifrax.com

UNIFRAX

SYSTEM COMPONENTS

Insulating Core: FyreWrap Cable Insulation incorporates Insulfrax S Blanket as its insulating core. This is a high temperature AES blanket with low bio-persistence which under the EU Directive 67/548/EEC carries no hazard classification and which is also fully non-combustible and generates no smoke or fuming.

Encapsulating Material: The insulating core is fully encapsulated by a 50µm aluminium foil reinforced with a bi-directional glass fibre mesh. This covering which has excellent tear resistance and which provides improved handling characteristics and most importantly imparts weather resistance to the system for outdoor installations.

Banding Straps: The insulating wrap is held in place with grade 302 (minimum) stainless steel bands, 13mm minimum width & 0.38mm minimum thickness.

TYPICAL PRODUCT PARAMETERS

FyreWrap Cable insulation	
Physical Properties	
Density (kg/m ³) - core material	128
Standard Core	Insulfrax S Blanket
Standard Encapsulation	50µm aluminium foil with glass mesh
Grade / Thickness (mm)	
FyreWrap 1.5 Cable Insulation	38
FyreWrap 2.0 Cable Insulation	50

TECHNICAL PERFORMANCE

ASTM E-1529 Circuit Integrity (Hydrocarbon Fire Curve, Loaded Trays)			
Tray / Conduit Size (mm)	Wrap Layer Thickness (mm)	No. of Layers	Circuit Integrity Rating (mins)
50 - 200	50	1	30
50 - 200	38	2	60
305	38	1	30
305	50	1	60
914	50	1	45

As per FM approval listings. For cable system requirements not listed in this table please contact your local Unifrax engineering office.

AVAILABILITY

FyreWrap Cable insulation	
Thickness (mm)	Roll Size (mm)
38	5000 x 610
50	3660 x 610

Non-standard sizes may be available to suit individual project requirements.

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:

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation. Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Italia, Unifrax Limited, Unifrax s.r.o.). Unifrax maintains a continuous programme of product development and reserves the right to change product specifications without prior notice. Therefore, it maintains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended. Similarly, insofar as materials 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 information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials. All sales made by a Unifrax Corporation company are subject to that company's Terms and Conditions of Sale, copies of which are available on request.