

FYREWAP® CABLE INSULATION

Description

FyreWrap® Cable Insulation 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.

Systems components

Insulating Core: **FyreWrap Cable Insulation** incorporates Insulfrax S Blanket as its insulating core. This is a high temperature AES blanket with low biopersistence 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

Technical Performance

Circuit Integrity - per ASTM E-1529
Temperature Integrity - per ASTM E-1725
Cable Loading - Empty to Fully Loaded Trays

ASTM E-84 Surface Burning Characteristics:

- unfaced core: Flame/Smoke Rating = zero
- encapsulation: Flame/Smoke Rating = 5/10



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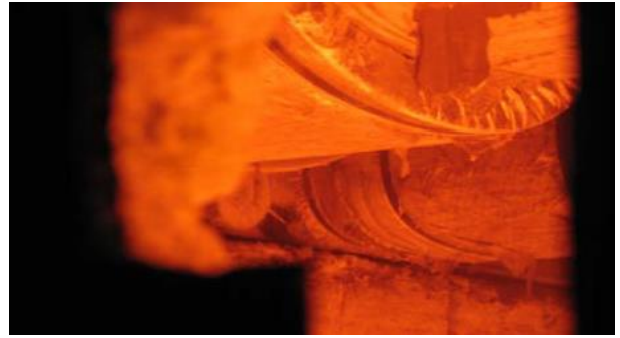
Typical product parameters

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



Availability

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

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

ASTM E-1529 Circuit Integrity (Hydrocarbon Fire Curve, Loaded Trays)

As per FM Global Listing

Tray	Cable loading	Product version	Blanket	No. of layers	AST E-1529 rating
305mm	39% actual fill 100% visual fill	FyreWrap 1.5 Cable Insulation	38 mm	One	30 min.
305mm	39% actual fill 100% visual fill	FyreWrap 2.0 Cable Insulation	50 mm	One	60 min.
914mm	39% actual fill 100% visual fill	2.0 Cable Insulation	50 mm	One	45 min

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



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