



# FyreWrap<sup>®</sup>

## Cable Insulation System

Fire Protection Solution

# Cable Insulation System

Fire Protection Solution

**FyreWrap®**

## Cable Insulation

FyreWrap® Cable Insulation from Alkegen is a thin, flexible insulation wrap designed to provide fire protective enclosures around cable trays and conduit. 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.

## System Performance

- FM Global approved
- Meets ASTM E1725, Fire Tests of Fire Resistive Barrier Systems for Electrical System Components
- Meets ASTM E1529, Hydrocarbon Exposure
- Provides circuit integrity ratings
- Complies with API and ExxonMobil specifications on fireproofing for petroleum and petrochemical processing



## System Components

FyreWrap Cable Insulation incorporates Insulfrax® Blanket as its insulating core

- Provides excellent insulation
- Fully non-combustible
- Completely encapsulated core
- Choice of coverings:
  - 50µm aluminium foil reinforced with a bi-directional glass fibre mesh.
  - Aluminum foil, fiberglass-reinforced scrim covering.

## System Flexibility

- Flexible wrap held in place with banding stainless steel
- Rapid installation and removal of cables



# Cable Insulation System

Fire Protection Solution



## Cable Insulation

### FyreWrap® Cable Insulation Features:

Technical Performance	Availability	Application Areas	Approvals
<ul style="list-style-type: none"> <li>• Fire Ratings - 15, 30, 45, 60 minutes (see Test Results section)</li> <li>• ASTM E84 Surface Burning Characteristics: Flame/Smoke Rating 5/10</li> <li>• Insulating core fully non-combustible with zero smoke generation</li> </ul>	<ul style="list-style-type: none"> <li>• 38mm (1.5 inch) &amp; 50mm (2 inch) thicknesses</li> <li>• Rolls 610mm (2 ft) wide</li> <li>• 38mm product rolls 5.0m long (1.5" x 25 LF)</li> <li>• 50mm product rolls 3.66m long (2" x 20 LF)</li> </ul> <p><small>Product availability may differ depending on location, please check with your Alkegen representative.</small></p>	<ul style="list-style-type: none"> <li>• Refineries &amp; chemical processing plants</li> <li>• LNG plants</li> <li>• Offshore</li> <li>• Underground/Metro</li> </ul>	<ul style="list-style-type: none"> <li>• FM Global Approved—wrap for grouped electrical cables</li> <li>• API 2218 "Fireproofing Practices in Petroleum and Petrochemical Processing Plants"</li> <li>• Complies with ExxonMobil GP14-03-01 "Fireproofing"</li> </ul>

## Test Results



ASTM E1529 Circuit Integrity (Hydrocarbon Fire Curve, Loaded Trays)				As per FM Global Listing	
Tray	Cable Loading	Product Version	Blanket	No. of Layers	ASTM E1529 Rating
305mm (1ft)	39% actual fill, 100% visual fill	FyreWrap 1.5 Cable Insulation	38mm (1.5")	One	30 min.
305mm (1ft)	39% actual fill, 100% visual fill	FyreWrap 2.0 Cable Insulation	50mm (2")	One	60 min.
914mm (3ft)	39% actual fill, 100% visual fill	FyreWrap 2.0 Cable Insulation	50mm (2")	One	45 min.

ASTM E1725 (ASTM E1529 Hydrocarbon Fire Curve, max 121°C (250°F) temp rise)					
Tray	Cable Loading	Product Version	Blanket	No. of Layers	ASTM E1529 Rating
305mm (1ft)	Empty *	FyreWrap 1.5 Cable Insulation	38mm (1.5")	Two	45min.
305mm (1ft)	Empty *	FyreWrap 2.0 Cable Insulation	50mm (2")	One	15 min.
305mm (1ft)	39% actual fill, 100% visual fill	FyreWrap 2.0 Cable Insulation	50mm (2")	One	30 min.
914mm (3ft)	Empty*	FyreWrap 2.0 Cable Insulation	50mm (2")	One	15 min
914mm (3ft)	39% actual fill, 100% visual fill	FyreWrap 2.0 Cable Insulation	50mm (2")	One	15 min

\*Empty tray is worst case and qualifies cable loading range from 0 to 100%. For other tray sizes please contact your Alkegen representative for more information.

# Industries We Serve



FILTRATION  
& CATALYSIS



INSULATION



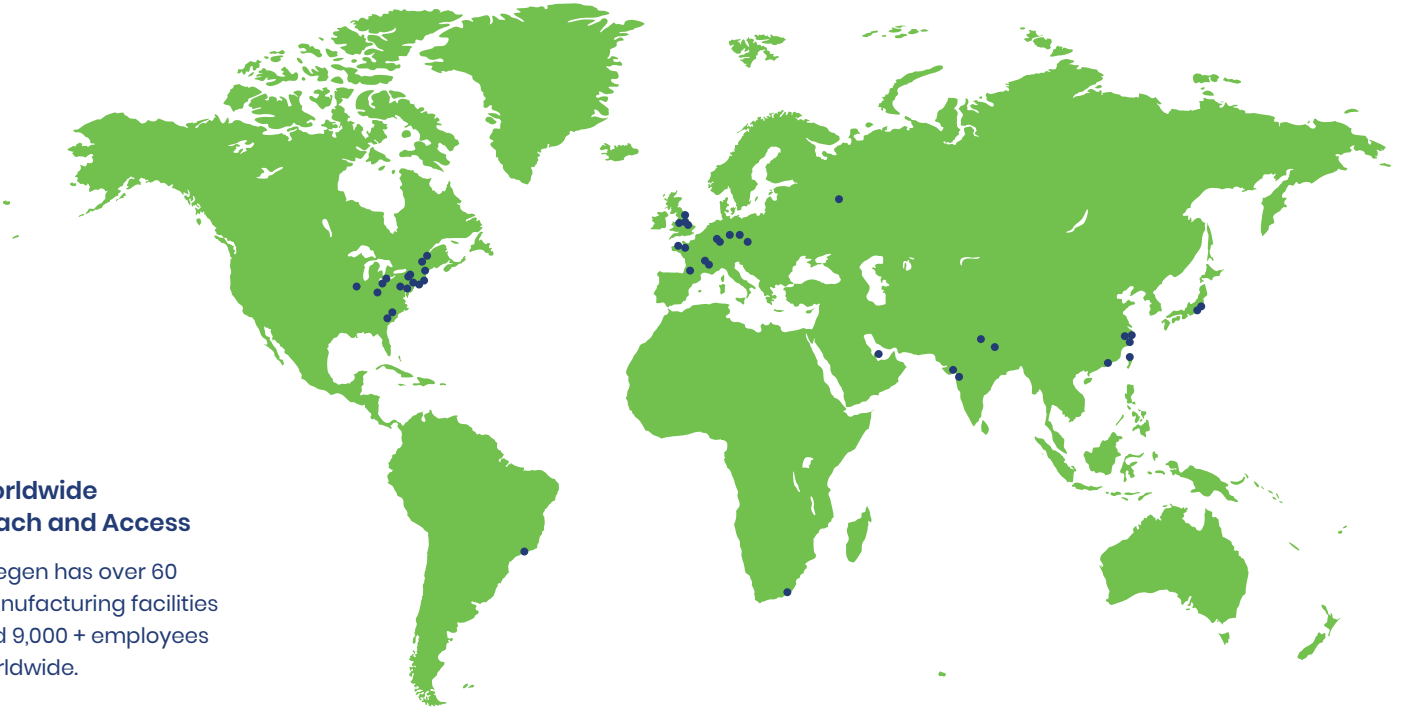
TRANSPORTATION  
& OFF-ROAD  
EQUIPMENT



BATTERY



CONSTRUCTION &  
FIRE PROTECTION



## Worldwide Reach and Access

Alkegen has over 60  
manufacturing facilities  
and 9,000 + employees  
worldwide.

Breathe easier, live greener  
and go further than **ever before.**

# ALKEGEN

Construction & Advance Materials:  
Geosynthetics / Advanced Materials / Fire Protection

## Headquarters

5215 N. O'Connor Blvd, Suite 2300  
Irving, TX 75039  
Email: [Info@Alkegen.com](mailto:Info@Alkegen.com)

## Application Engineering Team:

Telephone: 716-768-6298

## Other International Locations

Argentina  
Australia  
Brazil  
Canada

China  
India  
USA  
Venezuela

Spain  
France  
Germany  
Italy

Czech Republic  
United Kingdom

[www.Alkegen.com](http://www.Alkegen.com)