

# **Product Information Sheet**

## FyreWrap<sup>®</sup> 0.5 Plenum Insulation

### Introduction

Unifrax's FyreWrap<sup>®</sup> 0.5 Plenum Insulation is a hightemperature insulation blanket specifically designed to provide a single layer, flexible enclosure around combustible items located within fire-rated return air plenums. New construction, building renovations or modifications to the electrical and mechanical systems may result in the installation of plastic pipe or plastic-coated cables that cannot meet the minimum combustibility requirements defined in the Mechanical Code. FyreWrap 0.5 Plenum Insulation provides fire protection for these installed items by preventing flame propagation and smoke development in the plenum area. FyreWrap 0.5 Plenum Insulation offers the following product features:

- Lightweight, flexible product form
- · Scrim encapsulated
- · Easy to cut, fabricate, wrap around pipes or cables
- Thin, single layer design
- High-temperature, biosoluble fiber

#### **Product Components**

Core Material: FyreWrap 0.5 Plenum Insulation incorporates Insulfrax<sup>®</sup> Thermal Insulation as its core material. Insulfrax is a high-temperature insulation made from a calcia, magnesia, silica chemistry designed to enhance biosolubility. It provides excellent insulation in a noncombustible blanket product form.

#### **Typical System Properties**

Intertek Laboratories (OPL) Listed UL 1887 – modified results Plastic Pipe and Cable Sheathing Plastic Pipe Size (minimum) Plastic Coated Cable Groupings ASTM E136 Non-combustibility ASTM E84, UL 723, ULC S102.2

> Flame Spread Rating: Smoke Developed Rating:

 Applied Fire Protection, File 16341-3

 Passes; Intertek Design Nos. UNI/BI 20-03, UNI/BI 20-04

 PVC, CPVC, PB, PE, PP, PVDF and ABS

 1" or larger individual pipes or pipe bundles

 3 or more multi-stranded telecommunication wires.

 Passes

 UL File No. R14514

 Unfaced Blanket
 Encapsulated

 Zero
 <25</td>

 Zero
 <50</td>







FvreWrap

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Refer to the product Material Safety Data Sheet (MSDS) No. M0200 for recommended work practices and other product safety information.



FyreWrap 0.5 Plenum Insulation

Encapsulating Material: The core insulation blanket is completely encapsulated in an aluminum foil, fiberglass reinforced scrim covering. This scrim provides additional handling strength as well as protection from moisture absorption and tearing.

#### **Typical Product Parameters**

Thickness	1/2"
Density	8pcf
Covering	Scrim Encapsulated
Product Availability	24"w x 25LF
	48"w x 25LF

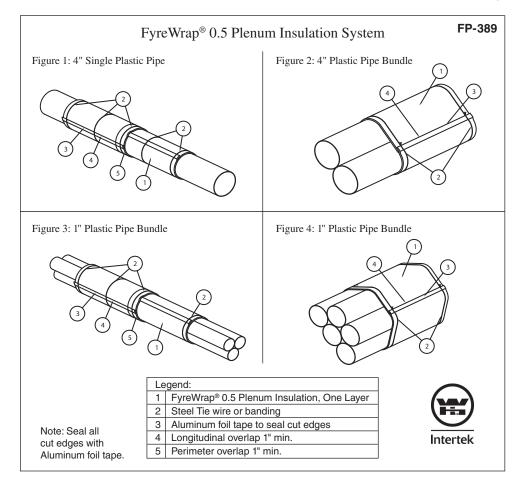
#### Installation

FyreWrap 0.5 Plenum Insulation consists of a single layer system applied directly on to the surface of the combustible item. Cut the insulation to a length sufficient to wrap around the combustible item(s) plus provide a minimum 1" perimeter overlap. Seal all cut edges with aluminum foil tape to ensure there is no exposed fiber. Cut the adjacent piece of Plenum Insulation long enough to wrap around the circumference of the item plus a 1" perimeter overlap. This piece shall also be installed with a minimum 1" longitudinal overlap on to the previously installed piece. To temporarily secure the Plenum Insulation, optional use of 1" wide filament tape is permitted. Space the tape within  $\frac{1}{2}$ " of the blanket edge and approximately 11" on center. 24 ga. steel tie wire or  $\frac{1}{2}$ " steel banding should be utilized as a permanent attachment. Locate the wire or banding  $\frac{1}{2}$ " from the blanket edge and on 11½" centers. Twist tension the wire or tighten banding to firmly hold the wrap system in place, but not so tight as to cut or damage the blanket. Hand tightening of wire is adequate.

Installation drawings are provided below for additional illustration.

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 for assistance identifying the recommended product for your fire protection application, please contact Unifrax at 716-768-6500 and ask for Fire Protection Application Engineering.





Thermal Products Company, Inc. 4520 S. Berkeley Lake Rd. Berkeley Lake, GA 30071-1639 770-662-0456 770-242-6210 (Fax) info@thermalproductsco.com www.thermalproductsco.com

The following are registered trademarks of Unifrax: FyreWrap, Insulfrax. The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for average frequency for the standard procedures and are subject to variation.

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.



#### Unifrax I LLC

Corporate Headquarters 600 Riverwalk Parkway Suite 120 Tonawanda, NY 14150 Telephone: 716-768-6500 Canada: 1-800-635-4464 Internet: www.unifrax.com Email: info@unifrax.com