

## FyreWrap® Elite® 1.5 Duct Insulation – Grease Duct Single-Layer System

### Introduction

Unifrax's FyreWrap® Elite® 1.5 Duct Insulation is a single-layer flexible enclosure for 1- and 2-hour fire-rated commercial kitchen grease ducts. This slim, compact design offers the lightest system available and results in significant weight, space and labor savings when compared to traditional fire-rated shafts or competitive wrap systems. The system was tested per UL 1978 and ASTM E 119, and complies with pre-2006 editions of the International Mechanical Code (IMC).

FyreWrap Elite 1.5 provides the following features:

- Zero clearance to combustibles at all locations on wrap
- 1- and 2-hour fire endurance rating
- Alternate to fire-rated shaft enclosure
- Saves weight, space, labor
- Thinnest, lightest system available
- High-temperature, biosoluble insulation
- GREENGUARD listed for Microbial Resistance

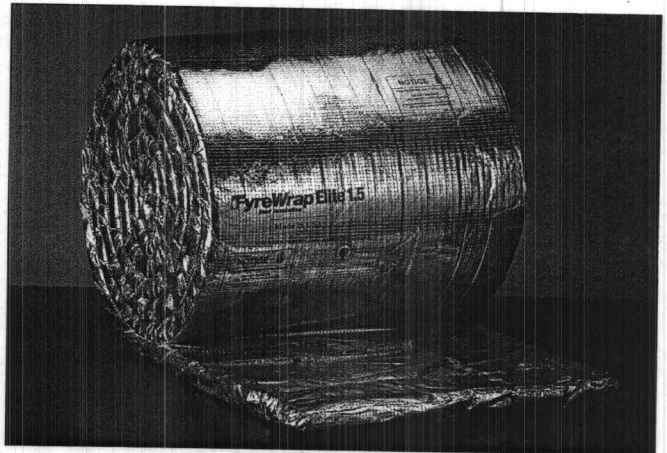
### Product Components

Core Material: FyreWrap Elite 1.5 incorporates Insulfrax® 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, File 14870	.....Duct System: Design Nos. UNI/FRD 120-09, UNI/FRD 120-10, UNI/FRD 120-16	
UL 1978 Internal Grease Duct Test (June 2002)	.....Zero Clearance to Combustibles at All Locations on Wrap	
ASTM E 119 Full Scale Engulfment Test	.....2-hour Fire Resistance Rating	
ASTM E 814 Through-Penetration Firestop Test	.....Firestop System: UNI/FRD 120-12, UNI/FRD 120-13, UNI/FRD 120-18, UNI/FRD 120-20, UNI/FRD 120-22	
F-Rating = 2 hrs., T-Rating = 2 hrs	Unfaced Blanket	Encapsulated
ASTM E 84/UL 723, UL File No. R14514		
Flame Spread Rating.....	Zero	<25
Smoke Developed Rating .....	Zero	<50
ASTM E 136 Non-combustibility Test .....	.....Passes	
ASTM C 518 Durability Test.....	.....Passes; R-Value = 4.13 per inch @ 75°F	
ASTM C 518 Thermal Resistance .....	.....R-Value of Elite 1.5 (1½") = 6.19	
ASTM C 411 Hot Surface Performance .....	.....Passes	
ASTM D 6329-03 Microbial Resistance.....	.....Resistant to Mold Growth	
California State Fire Marshal Listing .....	.....No: 2440-1478:100	

Complies with: NFPA 96 (up through 2001 Edition), 90A, (2002), 2000 and 2003 International Mechanical Code (IMC), 2000 and 2003 International Building Codes (IBC), BOCA National Building Code/1999, 1999 Standard Building Code, 1997 Standard Mechanical Code, and 1997 Uniform Building Code (UBC), 2008 NYC Building & Mechanical Codes



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**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 grease and moisture absorption and tearing.

### Typical Product Parameters

Thickness	1.5"
Nominal Density	6pcf
Standard Product Form	Scrim Encapsulated
Product Availability	24"w x 25LF 48"w x 25LF



Complies with:

