Introduction
FyreWrap® Elite® Blanket from Unifrax is a totally inorganic, flexible, high-temperature insulation blanket optimized for high-performance passive fire protection applications. FyreWrap Elite utilizes a calcium, magnesium, silicate chemistry to provide thermal insulation at continuous operating temperatures up to 2012°F (1100°C). This fiber chemistry has been combined with Unifrax’s proprietary fiber spinning technology to create a specialty high-temperature blanket with optimized fire protection properties.

FyreWrap Elite Blanket is used in a wide range of fire protection applications including appliances, prefabricated ductwork, chimneys, etc.

General Characteristics
FyreWrap Elite Blanket is a flexible, strong, lightweight, needled blanket. Mechanical needling of the spun fibers eliminates the need for binders in the product’s manufacture and results in a product with high tensile strength. Since Elite Blanket is completely inorganic, the product exhibits no smoke generation or outgassing in service. Elite Blanket combines a low thermal conductivity with excellent performance under transient fire conditions.

A series of green dots on the surface of the blanket make identification, tracking, and inspection of Elite Blanket simple on the job site or in the fabrication shop.

Product Forms
FyreWrap Elite Blanket is available in the following forms:
- Thickness ½”, 1”, 1.5”, 2.0”
- Density 4, 6, 8, 10 PCF
- Width 24”, 48”
- Length 12.5’, 25’

Note: Some versions are non-standard. Check availability by contacting Unifrax customer service.

Applications
Appliances
- Residential self-cleaning ovens
- High-temperature commercial cooking appliances

Hearth Products
- Chimney liner insulation
- Heat shields

Commercial Buildings
- Prefab grease exhaust ducts
- Pre-insulated grease duct access doors
- Expansion joint seals
- Through-Penetration Firestop packing

Typical Product Parameters

<table>
<thead>
<tr>
<th>Chemical Analysis (%)</th>
<th>SiO₂</th>
<th>CaO</th>
<th>MgO</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>61 to 67</td>
<td>27 to 33</td>
<td>2 to 7</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.
Typical Product Properties

<table>
<thead>
<tr>
<th>Product Form</th>
<th>Color</th>
<th>Temperature Grade(1)</th>
<th>Recommended Operating Temperature(2)</th>
<th>Melting Point</th>
<th>Specific Heat</th>
<th>Specific Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FyreWrap Elite Blanket</td>
<td>White</td>
<td>1260°C 2300°F</td>
<td>1100°C 2012°F</td>
<td>1310°C 2390°F</td>
<td>1000/kg (1000°C)</td>
<td>2.67 (g/cm³)</td>
</tr>
</tbody>
</table>

(1) Temperature Grade based on European Norm 1094 (EN1094)
(2) The recommended operating temperature of Elite products is determined by irreversible linear change criteria, not melting point.

Health and Safety Information

Elite Blanket from Unifrax, according to Directive 97/69/EC, possesses a fiber chemistry within the regulatory definition of a “man-made vitreous (silicate) fiber with random orientation with alkaline oxide and alkaline earth oxide content greater than 18% by weight.” Elite fibers have been tested pursuant to EU protocol ECB/TM/26, Revision 7, Nota Q, Directive 97/69/EC, with results that are below regulatory thresholds. As a result, Elite Blanket does not require additional labeling or further testing. Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

Other Fire Protection Products and Applications

Unifrax offers many UL listed Fiberfrax® and FyreWrap® product forms and FyreWrap fire protection materials for passive fire protection applications, such as:

- Cable Trays, Conduits
- Control System Covers
- Above Ground Storage Tanks
- Marine Bulkheads, Decks
- Structural Steel
- Construction Joints
- Curtain Walls/Safing
- Circuit Protection
- Grease, HVAC Ducts
- Railroad Tank Cars
- Transit Cars
- Ships
- Expansion Joints
- Fire Door Seals
- Chimney Liners
- Ceiling Air Diffusers
- Hazardous Material Storage Containers

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

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 to identify the recommended product for your fire protection application, please contact the Unifrax Fire Protection Application Engineering Group at 716-768-6500.

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