

## Unifrax FyreWrap® Tank Car Insulation

Category : Ceramic

### Material Notes:

FyreWrap® Tank Car Insulation from Unifrax is a flexible, lightweight, high-temperature, fire protection insulation blanket specifically designed to meet Department of Transportation (DOT) Federal Railroad Administration thermal protection requirements for railroad tank cars carrying hazardous materials. Tank Car Insulation systems have been tested to pool fire and torch fire conditions outlined in 49 CFR Part 179 and are utilized on tank car Classes DOT-105, 109, 112, and 114. Systems comply with DOT Dockets HM-144, HM-145, HM-175, HM175a, and HM-181 for cars carrying flammable and combustible liquids and gases and chlorine that are approved by the Association of American Railroads (AAR). Unifrax's proprietary fiber spinning technology combined with mechanical needling of the fibers eliminates the need for binders in the product. This results in a material with high tensile strength and that is completely inorganic. Tank Car Insulation offers superior handling strength for easy installation and durability while in service. Tank Car Insulation blanket has excellent chemical stability and is unaffected by most chemicals except hydrofluoric and phosphoric acids and concentrated alkalis. If wet by water or steam, thermal and physical properties remain unaffected after drying. FyreWrap Tank Car Insulation systems offer thin, lightweight solutions for compliance with tank car fire protection requirements. Thin systems yield increased available tank car payload, and lower operational costs for tank car owners. Product Features Complies with 49 CFR 179 Specification on Tank Cars Meets DOT thermal protection requirements in Dockets HM-144, HM-174, HM-175, HM-175a, and HM-181 Utilized for Class 105, 109, 112, and 114 tank cars Proven performance when tested to pool fire and torch fire conditions Inorganic, noncombustible product form, no issues with use under tank car jacket Significant space and weight savings, lower operation costs Strong, flexible blanket is easy to handle, cut, and install Information Provided by Unifrax LLC

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unifrax-FyreWrap-Tank-Car-Insulation.php](http://www.lookpolymers.com/polymer_Unifrax-FyreWrap-Tank-Car-Insulation.php)

Physical Properties	Metric	English	Comments
Density	>= 0.0721 g/cc	>= 0.00260 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	Recommended Operating Temperature

Descriptive Properties	Value	Comments
Organic Content (%)	0	
Surface Burning Characteristics	Flame Spread Rating = 0	ASTM E-84
	Smoke Developed Rating = 0	ASTM E-84
Temperature Grade (°C)	1260	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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