

Unifrax XPE® NV Substrate Support Mat

Category : Ceramic

Material Notes:

XPE® intumescent mat products are designed to function as mechanical support for the ceramic substrate and act as an exhaust gas seal while providing thermal insulation. Unifrax offers a variety of premium and advanced mat products with enhanced performance properties. As a manufacturer of fibers used in a variety of catalytic converter mounting systems, Unifrax has successfully combined fiber making expertise with a state-of-the-art paper manufacturing process to maximize the performance of our catalytic converter support mats. Engineered to meet the performance requirements associated with traditional catalytic converter applications, Unifrax is pleased to offer XPE®-NV substrate support mat. Unifrax XPE-NV provides a unique balance of performance versus value and is recommended for a broad range of catalytic converter substrate support and cone insulation applications. XPE-NV can be engineered to provide excellent thermal stability at inlet gas temperatures up to 950°C. The support mat will expand with increasing relative thickness when first exposed to temperatures in excess of 325°C. Expansion pressure is provided by vermiculite particles trapped in a structural support matrix of Fiberfrax® ceramic fibers. The ceramic fibers also provide resistance to hot gas mat erosion. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-XPE-NV-Substrate-Support-Mat.php

Physical Properties	Metric	English	Comments
Loss On Ignition	>= 6.0 %	>= 6.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 0.100 MPa	>= 14.5 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.180 W/m-K @Temperature 650 °C	1.25 BTU-in/hr-ft²-°F @Temperature 1200 °F	ASTM C177

Descriptive Properties	Value	Comments
Binder System (%)	5-9	
Fiberfrax® Fibers (%)	30-40	
Vermiculite (%)	50-60	

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