

## Unifrax IsoMat® AV/AVi Substrate Support Mat

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

### Material Notes:

Developed to meet the most stringent European regulatory requirements, IsoMat AV/AVi is engineered utilizing the unique Isofrax® 1260°C fibers - a revolutionary green fiber produced using patented magnesia-silicate chemistry. These fibers are the product of a long-term research and development effort by Unifrax to produce a biosoluble fiber with high-temperature performance characteristics up to 1260°C. Isofrax fibers exhibit excellent chemical stability and resistance to attack from most corrosive agents including combustion by-products of gasoline and diesel fuels. Mat Performance and Applications: 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 IsoMat AV/AVi. Like intumescent support mats utilizing traditional ceramic fibers, IsoMat AV/AVi can be designed to provide excellent holding force at continuous operating temperatures up to 900°C inlet gas temperature. Additional holding force is provided by vermiculite particles trapped in a structural support matrix of Isofrax fibers. The fiber matrix provides resistance to hot gas mat erosion. IsoMat AV/AVi expands with increasing relative thickness when first exposed to temperatures in excess of 325°C. Information

Provided by Unifrax I LLC

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unifrax-IsoMat-AVAVi-Substrate-Support-Mat.php](http://www.lookpolymers.com/polymer_Unifrax-IsoMat-AVAVi-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 (%)	8-12	
Isofrax® Fibers (%)	36-48	
Vermiculite (%)	42-53	

## Contact Songhan Plastic Technology Co.,Ltd.

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