

Unifrax IsoMat® AV5 Substrate Support Mat

Category : Ceramic

Material Notes:

IsoMat AV5 is designed to function as mechanical support for the ceramic substrate and act as an exhaust gas seal while providing thermal insulation. IsoMat AV5 offers superior performance at low temperatures and has excellent thermal stability with a continuous use temperature of 750°C average mat temperature (Reference SAE Paper 2007-01-0471). Performance at low temperatures is provided by a structural support matrix of Isofrax® fibers held together by a proprietary binder system, and it is equivalent to typical non-intumescent support mat systems. At elevated temperatures, the fiber matrix support is complemented by vermiculite expansion to absorb additional gap expansion. As a result, the holding force of the system is maintained over a broad range of temperature. This makes IsoMat AV5 an ideal solution for a wide range of emission control devices, including large diesel oxidation catalysts (DOC), diesel particulate filters (DPF), and selective catalyst reduction units (SCR), as well as gasoline oxidation catalysts, including ethanol (flex fuel) underbody converters. IsoMat AV5 has been designed to provide robust performance without the need for wire mesh ring protection (for erosion) or heat treatment for additional holding force at low temperatures. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-IsoMat-AV5-Substrate-Support-Mat.php

Physical Properties	Metric	English	Comments
Loss On Ignition	2.5 - 7.5 %	2.5 - 7.5 %	

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-ft ² -°F @Temperature 1200 °F	ASTM C177

Descriptive Properties	Value	Comments
Isofrax® Fibers (%)	65-75	
Vermiculite (%)	15-25	

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