

IsoMat® AV7 Substrate Support Mat

Unifrax is pleased to introduce IsoMat® AV7 support mat system. IsoMat® AV7 is designed to function as mechanical support for the ceramic substrate and act as an exhaust gas seal while providing thermal insulation.

As a manufacturer of fibers used in a variety of catalytic converter mounting systems, IsoMat® AV7 utilizes Unifrax patent Isofrax® 1260°C fibers, which are certified as “Non-Classified” according to European and German regulatory guidelines. As a result, IsoMat® AV7 does not require any additional labeling or special handling practice.

IsoMat® AV7 offers superior performance at low and medium operating temperatures up to 900°C inlet gas. Performance at low temperatures is provided by a structural support matrix of Isofrax® fibers held together by a new innovative binder system. At elevated temperatures, the fiber matrix support is complemented by vermiculite expansion to absorb additional gap expansion. As a result, the holding force system is maintained over a broad range of temperatures.

Target Applications

- Diesel Oxidation Catalysts (DOC)
- Diesel Particulate Filters (DPF)
- Selective Catalyst Reduction (SCR)
- Underbody Converters



Physical Properties

Basis Weight**	Nominal Thickness*	Nominal Installed Gap
(g/m ²)	mm	mm
2900	13.2	4.0
3500	15.9	5.0

* Thickness measured @ 0.725 kPa

** Basis Weight: Fiber + Binder

Additional basis weights available upon request.

Typical Composition

Fiber Weight	71.5-78.5%
Vermiculite Weight	18-22%
Binder Weight	4-6%

Isofrax® Fiber – Health and Safety Information

Isofrax® fibers have been tested pursuant to EU protocol ECB/TM/26 Revision 7, Nota Q, Directive 97/69/EC. Isofrax® fibers do not require additional labeling, further testing, or special handling practices.

Intratracheal Instillation Bio persistence testing per the German Hazardous Substances Ordinance has been conducted on Isofrax® fibers with results that are below German regulatory thresholds. Requirements of the German Hazardous Substances Ordinance [October 26, 1993 as amended June 18, 1998] do not apply.

Therefore, IsoMat® AV7 is certified as a Non-Classified, “True Green” Support Mat System. Certifications are available upon request.

Worldwide Technical Support

Unifrax is a worldwide sales and service organization with several international locations and representatives. The services that we provide include thermal modeling, system design engineering assistance, and failure analysis as well as technical exchange programs. For additional information regarding IsoMat® AV7 or any of our catalytic support mats, please contact the Unifrax Emission Control Application Engineering Department at 716-768-6461 or aecoordinator@unifrax.com.

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Page 2 of 2

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

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