



## ADCAT<sup>™</sup> 3-Way (NSCR) for VOC, CO and NOx Reduction

EmeraChem's metal monolith honeycomb catalyst replaces traditional NSCR and CO/HC catalysts. Our 3-Way (NSCR) catalyst has been demonstrated to outperform competing technologies and catalyst in emission reduction efficiency with less pressure drop at a lower cost. EmeraChem provides rapid manufacturing schedules and quick shipments for any NSCR application.

Heavy-duty stainless steel module design:

- High temperature nickel alloy substrate.
- Durable, longest-lasting, highest performance catalyst available.
- Catalyst module cell densities up to 700 cpsi.

Discrete cell substrate construction:

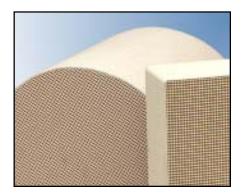
- Ensures maximum durability and extreme module mechanical integrity.
- Yields lowest possible pressure drop for the most surface area.
- Prevents plugging of inter-catalyst channels and sub strate nesting, which cause exhaust bypass and precious metal loss.

Flexibility for meeting future regulations:

- Individually mounted module design, allows for addition and replacement of catalyst modules to existing installations.
- Backed with a three-year warranty and has an expected life of greater than seven years.
- Broad operating temperature range (350 to 1200 °F) allows for simple and seamless integration of CO catalyst systems into all applications.

EmeraChem is a leading, full-service provider of catalysts and catalytic solutions with resources encompassing every aspect required to satisfy customer needs, from analyzing process conditions to delivering the final product.

EmeraChem delivers distinctly-focused, customer-specific engineered solutions within budget and on schedule.





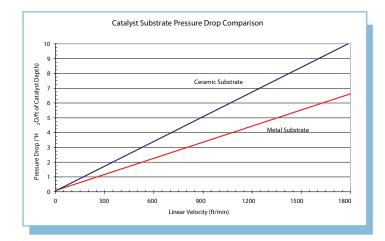


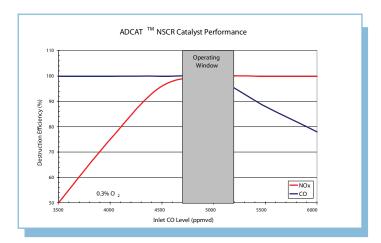


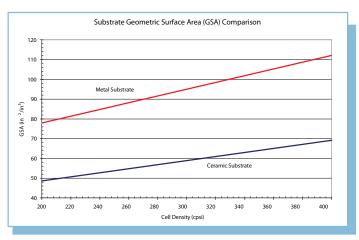
## ADCAT<sup>™</sup> 3-Way (NSCR) Catalyst: Technical Specifications

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Туре	Material	Properties			Units	Specifications					
Honeycomb Monolith	Metal Modules	Cell Density			cpsi	200	300	400	500	600	700
		Wall Thickness			in.	0.002	0.002	0.001/0.002	0.001/0.002	0.001/0.002	0.001/0.002
		Geometric Surface Area			in²/in³	76.24	97.70	115.10	124.31	145.32	165.55
		Maximum Temperature			°F	1,200	1,200	1,200	1,200	1,200	1,200
		Coefficient of Thermal Expansion			x10⁻6in/in/ºF	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0
		Range of Dimensions	Blocks	Height	in.	<u>&lt;</u> 36					
				Width	in.	<u>&lt;</u> 36	<u>&lt;</u> 36	<u>&lt;</u> 36	<u>&lt;</u> 36	<u>≤</u> 36	<u>&lt;</u> 36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
			Round	Diameter	in.	<u>&lt;</u> 36	<u>&lt;</u> 36	<u>&lt;</u> 36	<u>&lt;</u> 36	<u>≤</u> 36	<u>&lt;</u> 36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
	Ceramic Modules	Wall Thickness			in.	0.0105	0.0080	0.0070	n/a	n/a	n/a
		Geometric Surface Area			in²/in³	48.20	59.70	68.80	n/a	n/a	n/a
		Maximum Temperature			°F	1,200	1,200	1,200	n/a	n/a	n/a
		Coefficient of Thermal Expansion			x10⁻⁰in/in/ºF	3.91	3.91	3.91	n/a	n/a	n/a
		Range of Dimensions	Blocks	Height	in.	<u>&lt;</u> 42	<u>&lt;</u> 42	<u>&lt;</u> 42	n/a	n/a	n/a
				Width	in.	<u>&lt;</u> 42	<u>&lt;</u> 42	<u>&lt;</u> 42	n/a	n/a	n/a
				Depth*	in.	1-18	1-18	1-18	n/a	n/a	n/a
			Round	Diameter	in.	<u>&lt;</u> 42	<u>&lt;</u> 42	<u>&lt;</u> 42	n/a	n/a	n/a
				Depth*	in.	1-18	1-18	1-18	n/a	n/a	n/a

Listed numbers are nominal values. EmeraChem manufactures catalyst modules in various shapes and sizes. \*For greater depths, multiple units may be stacked to obtain desired dimensions.







## Inquiries:

Send us specifications, drawings or gas stream data and we will provide you with a custom-tailored solution to your specific application. EmeraChem also provides analytical and technical services to assist in determining your current emissions and catalytic performance.

EmeraChem is a proven leader in the catalytic control of NOx, SOx, CO, VOCs and PM for manufacturing and industrial applications as well as for the power generation industry.

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