

ADCAT™ VOC Catalyst

EmeraChem's ADCAT™ VOC oxidation catalyst yields optimal conversion efficiencies with reduced catalyst volume for the lowest capital and operating costs for all types of the processes where chemicals, coatings and fuels may be employed including chemical plants, oil refineries, manufacturing facilities and printing plants, among others.

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:

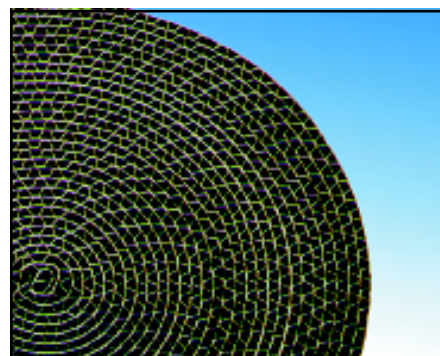
- Ensures maximum durability and extreme module mechanical integrity.
- Yields lowest possible pressure drop for the most surface area.
- Prevents plugging of inter-catalyst channels and substrate nesting, which cause exhaust bypass and precious metal loss.

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.

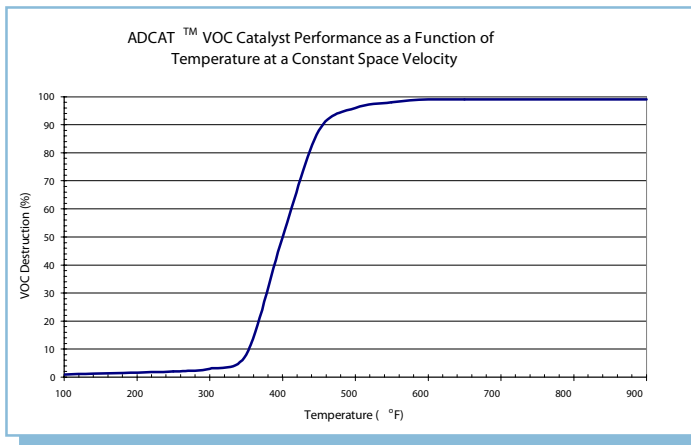
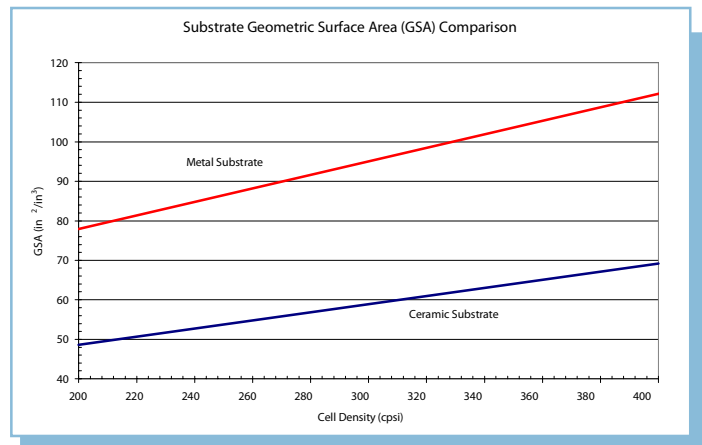
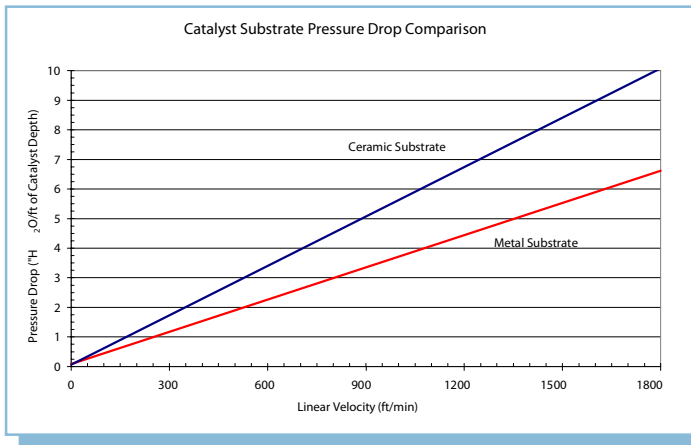
EmeraChem delivers distinctly-focused, customer-specific engineered solutions within budget and on schedule.



ADCAT™ VOC Catalyst: Technical Specifications

Type	Material	Properties	Units	Specifications							
Honeycomb Monolith	Metal Modules	Cell Density	cpai	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	in ² /in ³	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 ⁻⁶ in/in/°F	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.	≤36	≤36	≤36	≤36	≤36	≤36
				Width	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
			Round	Diameter	in.	≤36	≤36	≤36	≤36	≤36	≤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		in ² /in ³	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 ⁻⁶ in/in/°F	3.91	3.91	3.91	n/a	n/a	n/a	
		Range of Dimensions	Blocks	Height	in.	≤42	≤42	≤42	n/a	n/a	n/a
Width				in.	≤42	≤42	≤42	n/a	n/a	n/a	
Depth*				in.	1-18	1-18	1-18	n/a	n/a	n/a	
Round			Diameter	in.	≤42	≤42	≤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 NO_x, SO_x, CO, VOCs and PM for manufacturing and industrial applications as well as for the power generation industry.

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