

DOx™ Catalysts for Hydrocarbon and SOF Reduction

EmeraChem's DOx™ family of diesel exhaust catalysts yields optimal conversion efficiencies with reduced catalyst volumes for the lowest capital cost.

Designed for the stietest applications:

- On-road original equipment vehicles.
- Off-road original equipment applications.
- Retrofit on-road trucks and busses.
- Retrofit off-road equipment.

Produced on a variety of catalyst supports:

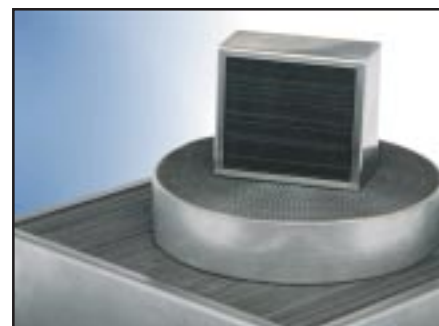
- Ceramic flow through supports.
- Metallic flow through supports.
- Ceramic particulate filters.

High Performance and durability products:

- Excellent low temperature performance for HC, CO and SOF conversion..
- Little SO₂ converted.
- Washcoat engineered for long useful lifetime.

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.

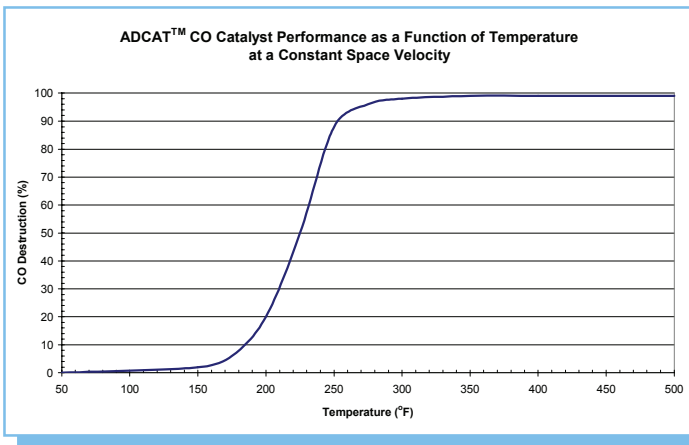
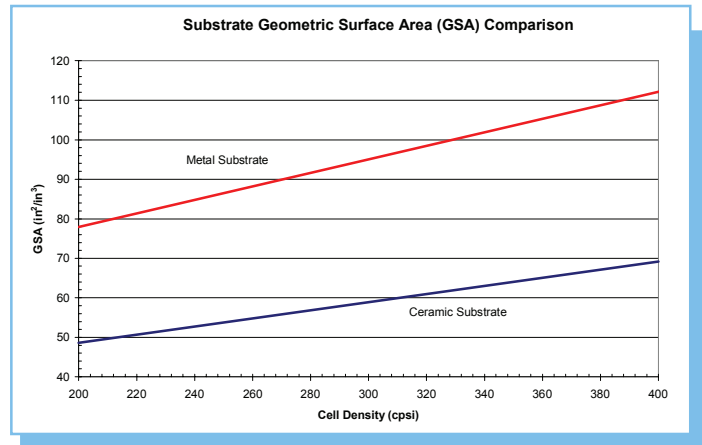
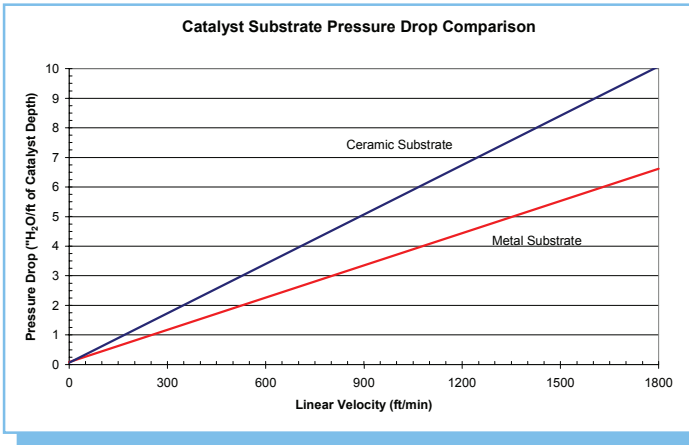


DOx™ Catalyst: Technical Specifications

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.	1-7	1-7	1-7	1-7	1-7	1-7
			Round	Diameter	in.	<36	<36	<36	<36	<36	<36
				Depth*	in.	1-7	1-7	1-7	1-7	1-7	1-7
	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	
			Alignment*	in.	1-7	1-7	1-7	n/a	n/a	n/a	
		Round	Diameter	in.	<42	<42	<42	n/a	n/a	n/a	
			Depth*	in.	1-7	1-7	1-7	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 the automotive industry as well as industrial and power generation applications.

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