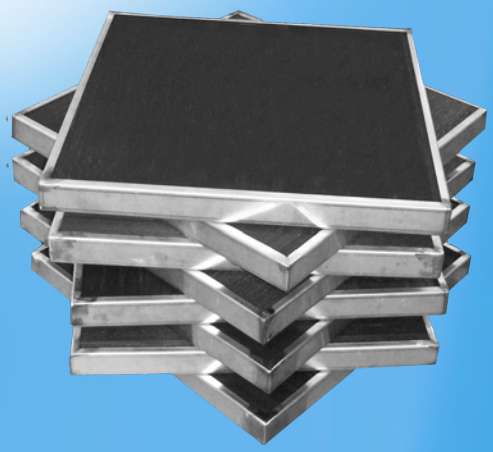
EmeraChem™
THE POWER OF CATALYSIS

ADCAT™ CO Catalyst
For CO and VOC Removal

EmeraChem's Advanced Catalytic Technology (ADCAT™) CO/VOC oxidation catalyst are custom manufactured to your specifications to achieve years of reliable emission compliance, durable long life, and low maintenance cost. EmeraChem's high-capacity manufacturing process means fast deliveries for large retrofit projects. Ask about our extensive reference list. Science developed in America, all products made in America.

Heavy-duty stainless steel catalyst elements with discrete cell substrate geomtry:

- Substrate is diffusion-bonded prior to coating for maximum strength, preventing loose foil, element blow-outs and exhaust bypass.
- Discrete cell geometry provides highest catalytic surface area (<40% more than herringbone) yielding the most active catalyst, the lowest pressure loss, and elimination of substrate "nesting".
- Manufactured in custom sizes and cell densities (200-400 cpsi) tailored to each gas path for best utilization of space and lowest pressure drop.



Durable ceramic coatings with platinum:

- Provides high performance, control of low-temperature start-up emissions, and resistance to poisoning and masking.
- Specific catalyst formulations for reduced oxidation of SO_2 and NO.
- Demonstrated life expectancies in excess of 7-10 years backed with warranties up to 6 years.

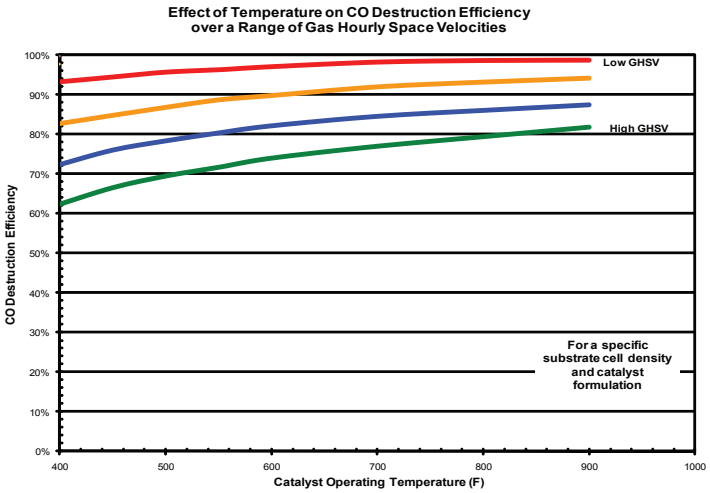
Itegration with EmeraChem's catalyst support structure:

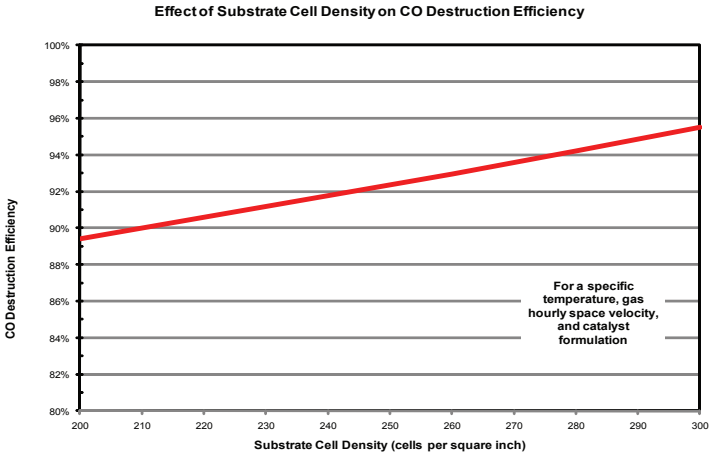
- Strong, light-weight tubular steel construction in carbon and stainless steels. Minimizes field installation time and labor.
- Easy, fast catalyst installation. Each catalyst element is independently sealed and mounted. Designed to accept additional catalyst as future regulations tighten.
- Flexible metal seal between the structure and the liner accomodates thermal expansion and elminates gas bypass.

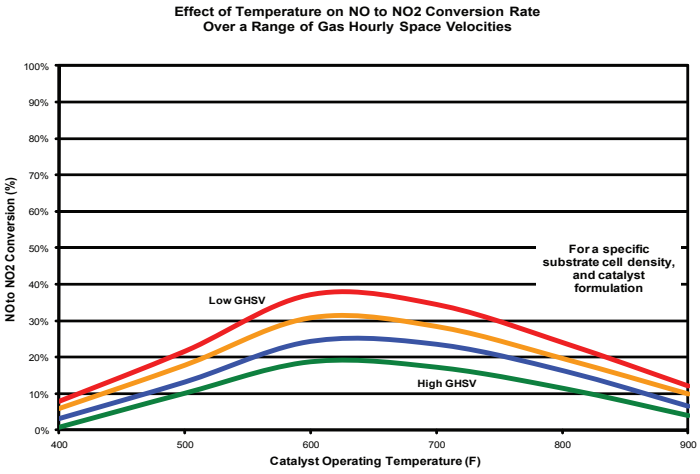
www.emerachem.com

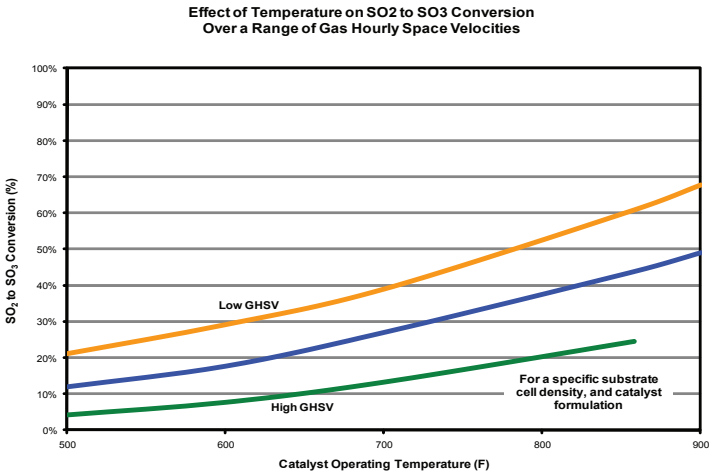
EmeraChem, LLC 1729 Louisville Drive Knoxville, Tennessee 37921 USA PHONE: 865.246.3000 FAX: 865.246.3001

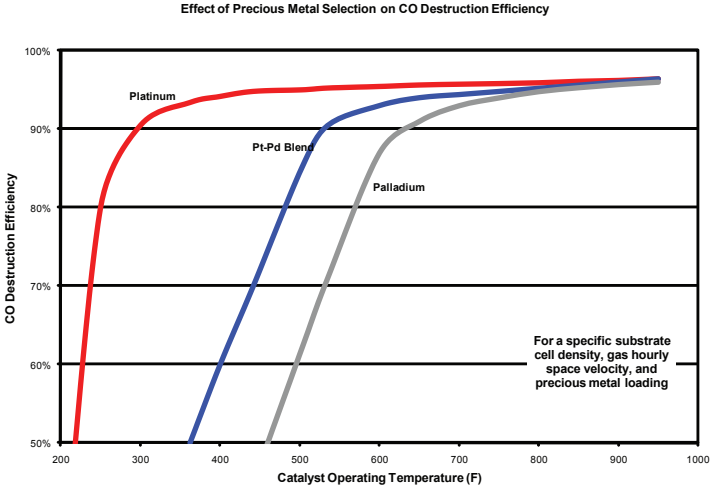
ADCAT™ CO CATALYST
Technical Specifications











Comparison of Platinum and Palladium

	Platinum	Palladium
CO DRE	Best	Good
VOC DRE	Best	Good
Light-off Temperature	250-450F	400-650F
Catalytic Activity	High	Moderate
Thermal Stability	Good to 1110F	> 1150F
Poison Resistance	High	Low
Durability	High	Low to moderate
Cost	$$-$$$	$