

# Laboratory Services

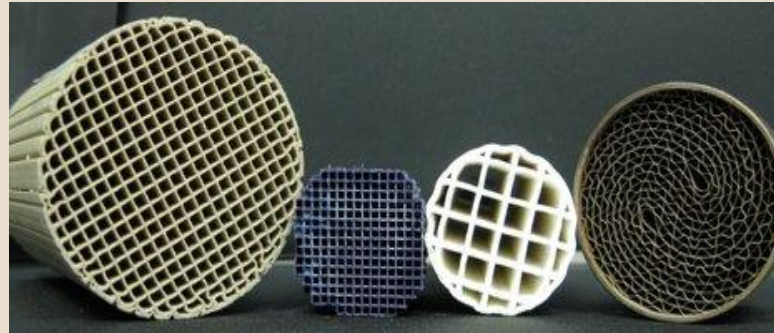
Catalyst & Adsorbent Development  
PGM Separation & Process Auditing  
Performance Testing  
Material Characterization



**Environex, Inc.**  
Your Catalytic Emission Control  
Experts Over 25 Years

## Catalyst & Adsorbent Development

Environex has years of experience developing catalysts and adsorbents from prototype development to full-scale production. We assist in selection of active materials, binders, and supports. Washcoat is formulated and applied with attention to support interactions, particle size, rheology, and adhesion.



### Raw Materials

Precious Metals  
Ceria & Zirconia  
Titania  
Alumina  
Zeolite  
Silica  
CARULITE®

### Support Materials

Ceramic Monolith  
Metal Monolith  
Pellet  
Beads  
Trilobes  
Foam  
Plates

### Application

Three-Way Catalyst (TWC)  
Diesel Oxidation Catalyst (DOC)  
Selective Catalytic Reduction (SCR)  
Sulfur-Resistant SCR  
High & Low Temperature  
Water Adsorption  
Ozone Destruction

## PGM Separation & Process Auditing

- Novel separation technology
- Recovery optimization
- Waste stream minimization

## Performance Testing

- SCR Performance
- CO Oxidation
- VOC Destruction
- Ozone Destruction
- Benchmarking
- Accelerated Aging
- Rejuvenation

## Material Characterization

- ESCA
- ICP
- SEM/EDS
- BET Surface Area
- Pore Size/Volume
- Temperature Programmed Reduction (TPR)
- Oxygen Storage Capacity (OSC)
- Particle Size Distribution
- Adhesion Testing
- Crush Strength
- Attrition Testing
- Absolute Viscosity & pH
- Zeta Potential

**Environex** offers testing, engineering, consulting, research, and training services to companies and organizations related to air emissions control.

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