



**APPLIED  
CATALYSTS**

(<https://appliedcatalysts.com>)

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# MARKET APPLICATIONS

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Engine emission  
control

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Industrial air  
pollution control

(<https://appliedcatalysts.com/market-applications/industrial-air-pollution-control/>)



Odor & Smoke  
Elimination

(<https://appliedcatalysts.com/market-applications/odor-smoke-elimination/>)



Thermal Incineration

(<https://appliedcatalysts.com/market-applications/thermal-incineration/>)

## COATINGS

*At Applied Catalysts, our coatings chemists are true masters, with the in-depth know-how and expertise to apply catalyst coatings to a wide variety of substrates. Depending on the application, we'll formulate your catalyst with precious metals or base metals and use economical promoters to enhance catalytic properties.*



This vast depth of knowledge has allowed us to operate confidently in a broad spectrum of traditional air pollution control applications in arenas such as:

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Our catalyst support line-up:

- Metal monolith
- In-house extrusion of cordierite monoliths (an ACC specialty)
- Shapes, saddles, rings and more

## HERE'S WHERE APPLIED CATALYSTS **SHINES**

### Your RTO/RCO Source

In high flow/low VOC concentration applications, using a catalyst to lower operating costs of an RTO (Regenerative Thermal Oxidation), and converting it to an RCO (Regenerative Catalytic Oxidation) can make sense for many reasons.

Or perhaps you're looking to add capacity to your existing RTO? Using catalysts and running at a lower temperature can increase the flow through your existing RTO by up to 20%.

Applied Catalysts' broad RCO product line makes us the world's premier RCO catalyst provider, with both precious-metal-based catalysts supported on monolith

### Stoves & Ovens

Since 1980, Applied Catalysts have been leading in wood-burning stove catalysts ([www.firecatcombustors.com](http://www.firecatcombustors.com)), and self-cleaning smoke eliminators for most brands of electric kitchen ovens.

### Food Production

Most cooking applications routinely produce VOC's and particulates in the form of smoke. Applied Catalysts provides custom metal monoliths designed for:

- Fast-food convection ovens

and saddles, as well as base-metal extruded rings.

As RTOs gain widespread use and market acceptance, Applied Catalysts Thermal Heat Media is fast becoming an industry standard.

- Char broilers
- Pizza ovens

These solidly built, precisely coated catalysts hold up for years to the rigors of both kitchen environments and the required ongoing cleaning procedure settings.

## Indoor Air Pollution

For indoor air pollution as well as certain chemical processing applications, our ACM (activated carbon monolith) and ACMC (activated carbon monolith catalysts) capitalize on the unique features and advantages of both activated carbon and monoliths themselves (i.e., high geometric surface area, low attrition and low pressure drop).

## Engines

Applied Catalysts produces a variety of catalyst types of engines—from small handheld applications to large MW reciprocating engine-exhaust catalysts for HC and NOx control. See our engine exhaust catalysts for more details.

**APPLICATION?**

Have another market application needing a catalytic system? Tell us about it, and let's create something that gets the job done.

[sales@appliedcatalysts.com](mailto:sales@appliedcatalysts.com) (mailto:sales@appliedcatalysts.com)

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FOR A QUARTER-CENTURY

**APPLIED  
CATALYSTS**

Applied catalysts has manufactured catalysts and provided catalyst manufacturing services.



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