

# VOCat™ 300S

## Oxidation catalyst

### Activity

BASF's precious metal catalysts have been used successfully for the control of hydrocarbons and other volatile organic compounds from many industrial processes. Oxidation is a chemical process, and it can be enhanced by the presence of a suitable catalyst. BASF precious metal catalysts can oxidize most organic compounds composed of carbon, hydrogen, sulfur, oxygen and nitrogen. BASF's VOCat 300S catalyst is a standard in the industry for controlling most of the VOC's from a wide variety of processes.

### Selectivity

When controlling the emissions of VOC's it is also critical for complete oxidation to prevent the formation of secondary products. VOCat 300S catalyst is very selective, and when operated according to the determined parameters, will provide complete oxidation without the formation of unwanted secondary products.

### Catalyst Cleaning for Longer Life

Catalyst that has been in service for years, or that has been exposed to an unexpected event causing degradation, can often be restored to virtually fresh activity levels by chemical cleaning, providing additional years of VOC destruction. BASF can evaluate your existing catalyst, recommend a catalyst cleaning program, and clean the catalyst in our own facility. When cleaning will not provide satisfactory results, BASF can suggest acceptable alternatives.

It takes thorough understanding of applications, and the expertise and resources to evaluate operating conditions to be a reliable supplier. BASF has a full analytical research and technical service capability to support the application of the VOCat catalysts.

Many years of servicing a wide variety of applications allows us the ability to quickly and effectively determine catalyst performance and provide recommendations to optimize performance.

### Typical Process Applications

VOCat 300S is presently working successfully in hundreds of applications worldwide, including:

- Chemical processes
- Paint systems
- Soil remediation
- Groundwater treatment
- Food processing
- Printing
- Fabric coating
- Electronics

### Distinguishing Features

VOCat catalysts are supported on ceramic honeycomb or spherical substrates and feature:

- Excellent adhesion for greatest durability
- High temperature stability and thermal shock resistance
- Low pressure

## About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

Visit [www.catalysts.basf.com/patents](http://www.catalysts.basf.com/patents) for a list of our product patents.

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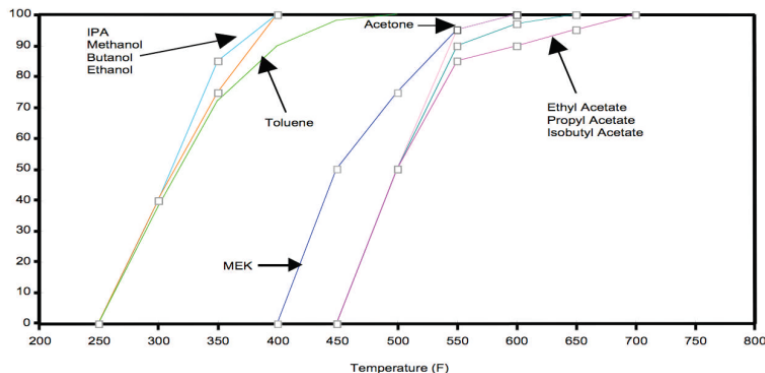
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**Table 1**

Compound	Ignition Temperature °F (°C)
Benzene	400°F (204°C)
Toluene	400°F (204°C)
Formaldehyde	300°F (149°C)
Methyl Ethyl Ketone	475°F (246°C)
Carbon Monoxide	320°F (160°C)

## VOCat 300S Destruction Efficiency



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