BASF
We create chemistry

VOCat™ 360 PFC

Oxidation catalyst for halogenated hydrocarbons

VOCat 360 PFC catalyst provides high activity, excellent selectivity and outstanding stability required for oxidizing halogenated hydrocarbons.

Chlorinated and fluorinated hydrocarbons are emitted from a wide variety of industrial processes, as well as many soil remediation and ground water clean-up operations. BASF's VOCat 350 HC catalyst has been used successfully for many years to destroy chlorinated hydrocarbons. BASF has now developed VOCat 360 PFC catalyst to destroy both fluorinated and chlorinated VOC compounds. Unlike many other catalysts, VOCat 360 PFC provides high activity, excellent selectivity and outstanding stability required for oxidizing fluorinated and chlorinated hydrocarbons.

Activity

The activity of VOCat 360 PFC is much higher than platinum and transition metal-based catalysts. This activity is exhibited over a wide range of chlorinated and fluorinated hydrocarbons, and especially when both are present in the same process stream. This makes VOCat 360 PFC ideal for most halogenated VOC process streams.

Selectivity

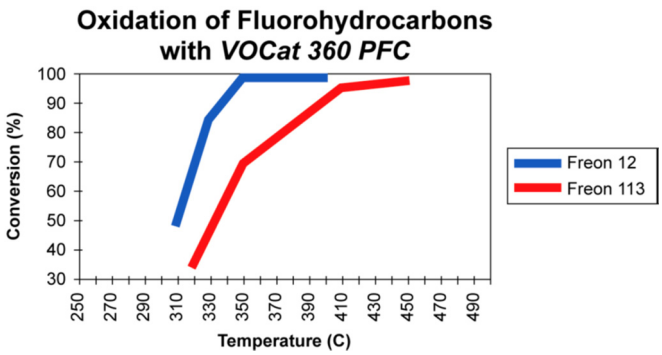
When controlling the emissions of VOC's it is also critical for complete oxidation to prevent the formation of secondary products. VOCat 360 PFC catalyst is very selective over a wide range of chlorinated and fluorinated hydrocarbon species. VOCat 360 PFC catalyst will form primarily CO_2, HCl and HF. The formation of HCl is preferred over Cl_2 because it is easy to scrub, and HF and HCl have a minimal effect on catalyst life.

Typical Process Applications

VOCat 360 PFC is ideally suited for a wide variety of applications, including:

- Chemical processes
- Soil remediation
- Groundwater treatment

Typical Operation Specs	
Temperature Range	45°C to 510°C
Cell Geometry	100 to 400 cpsi
Performance	Up to 99+%



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 ensurhe 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 for a list of our product patents.

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