

BASF Aerospace Materials

Deoxo™

Dual Ozone/VOC Catalytic Converter



We create chemistry

BASF offers technology to reduce both harmful ozone and Volatile Organic Compounds (VOC) in aircraft cabin air. This technology improves air quality by removing certain hydrocarbon compounds responsible for unpleasant odors, such as jet fuel smell. Sources of these odors include lubricant leaks and on-ground maintenance activities.

Deoxo™ Dual Ozone/VOC Catalytic Converters:

- ✓ Ensure a pleasant & healthy cabin environment.
- ✓ Have no detrimental effect on pressure drop when compared to an ozone-only converter.
- ✓ Can be an upgrade over an ozone-only converter or as a stand-alone unit.
- ✓ Are economical & dependable.
- ✓ Are easy to install.

Evaluation of Effectiveness

BASF evaluated the improved perception of air quality related to odors caused by VOCs using our Ozone/VOC catalyst technology. The results show that using BASF technology can **reduce the perceived odor intensity by 40% and improve perceived air quality by 60%**.

Effectiveness of BASF Ozone/VOC catalyst

	Odor intensity	Hedonic odor tone	Acceptability (decipol)	Panel members perceiving fuel odor
Upstream	2.6	-0.8	8.7	80%
Downstream	2.3	-0.8	8.4	77%
Downstream with VOC catalyst	1.5	0.1	3.0	36%

Odor testing carried out by an independent institute.

World-wide MRO Service

BASF offers competitive pricing for functional evaluation, maintenance, and repair services. BASF's worldwide service couples industry leading quality with short lead-times. BASF's repair services can increase the life of ozone converters to decrease total cost-per-hour over the service life of an aircraft.



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.

BASF – We create chemistry

Visit www.catalysts.basf.com/patents for a list of our patents.

Visit us at:

www.catalysts.basf.com/deoxo

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In 1980, FAA AC-120-38 was released mandating that aircraft cabin ozone levels cannot exceed 0.25 ppm above FL-320, and 0.10 ppm above FL-270 as a time weighted average for all flight segments longer than 4 hours. Ozone concentrations in excess of these levels can result in serious health issues including pulmonary distress, sinus pain, chest pain, fatigue, and dizziness.

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