BASF
We create chemistry

NOxCat™ ZNX SCR Catalyst

For natural gas turbines and stationary engines

Over a decade of research and development has resulted in the formulation of the BASF ZNX catalyst.

ZNX catalysts use zeolites as the principle catalytic material. The technology for these catalysts is based upon BASF's world-leading experience and expertise with zeolite catalysts.

ZNX catalysts feature composite honeycomb configurations which use highly active zeolite catalytic coatings to improve on ceramic structures. ZNX catalysts do not contain heavy metals, eliminating disposal concerns.

Materials of Construction

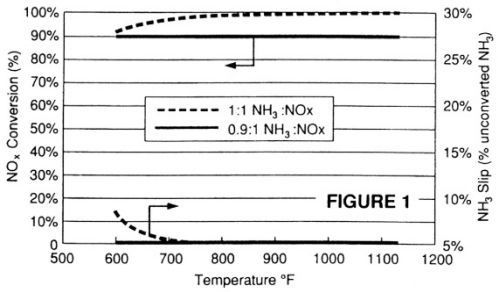
- Zeolite catalyst materials
- Does not contain heavy metals

Temperature Range

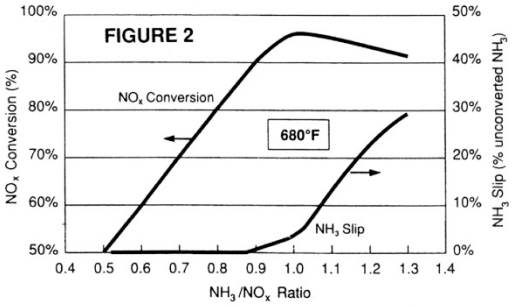
- 675 to 1075°F optimum
- 600 to 1125°F maximum
- Under 600°F, NOx efficiency is reduced with increased NH_3 slip

Performance

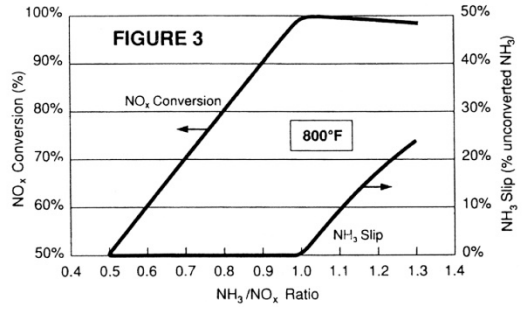
- NH_3 reacts with NOx to form nitrogen and water. NOx conversion increases with NH_3 injection. With 0.9:1.0 NH_3:NOx ratio 90% NOx conversion and low NH_3 slip from 600 to 1125°F (Figure 1)



- At 680°F, NOx conversion up to nearly 90% can be achieved with low NH_3 slip (Figure 2)



- At 800°F, NOx conversion up to nearly 100% can be achieved with low NH_3 slip (Figure 3)



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.

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