

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

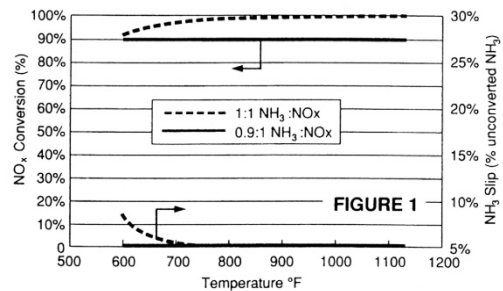
- Zeolite catalyst materials
- Does not contain heavy metals

Temperature Range

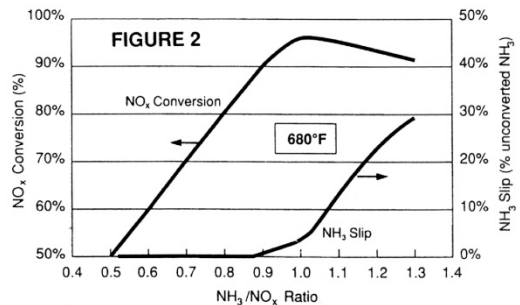
- 675 to 1075°F optimum
- 600 to 1125°F maximum
- Under 600°F, NOx efficiency is reduced with increased NH₃ slip

Performance

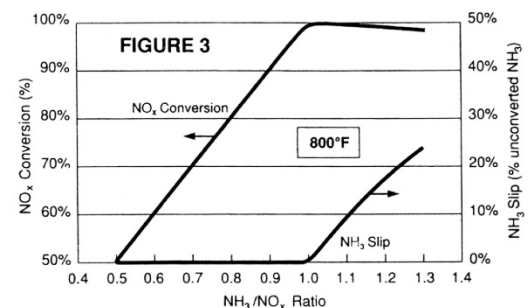
- NH₃ reacts with NOx to form nitrogen and water. NOx conversion increases with NH₃ injection. With 0.9:1.0 NH₃:NOx ratio 90% NOx conversion and low NH₃ slip from 600 to 1125°F (Figure 1)



- At 680°F, NOx conversion up to nearly 90% can be achieved with low NH₃ slip (Figure 2)



- At 800°F, NOx conversion up to nearly 100% can be achieved with low NH₃ 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.

BASF - We create chemistry

Americas

BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA
Tel : +1-732-205-6078
Email: sandra.king@basf.com

Asia Pacific

BASF (China) Company Limited
239 Luqiao Road, Pudong
Shanghai 201206, China
Tel: +86-21-6109 1862
Email: daniel.a.zhu@basf.com

Europe, Middle East, Africa

BASF SE
67056 Ludwigshafen
Germany
Tel: +49-621-60-59742
Email: adrian.crosman@basf.com

NOxCat is a trademark of BASF.

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH.

Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2019 BASF

www.catalysts.basf.com/stationarysources

BF-6338 01/19