

Product Data Sheet

BASF Catalyst 03-81

Extrudates Catalysts for N₂O Decomposition

 N_2O ("laughing gas") is a significant green house gas. One ton of N_2O is judged to have the same impact as 310 tons of CO_2 . BASF N_2O decomposition catalyst series O3-81 reduce N_2O especially from adipic acid plants.

Typical operation parameters:

Main composition:

- Activated CuO, ZnO, MgO and Al₂O₃
- Full 100 % active material, homogenous catalyst

Type and Packaging:

O3-81 SS6
Star Strengths extrudates, approx. 6 mm diameter

Density Approx. 0.9 kg/ltr

Packaging
110 kg metal drums with PE inliner

Key Characteristics

- Highest activity and long lifetime
- Selective to N₂O
- Exothermal heat-up due to high N₂O decomposition
- Possibility to generate valuable steam from exothermal heat
- Commercial scale experience since 1997
- References worldwide
- Tailor-made designs and licenses



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

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