



The Chemical Company

## Product Data Sheet

# Deoxo™ R

## 0.3% Platinum on alumina pellets

BASF **Deoxo R** is a uniform grey cylindrical alumina pellet with a nominal length of 3.2 mm (1/8”).

### Product Applications

Deoxo R catalyst is used to promote the catalytic combustion of Oxygen and Hydrogen upstream to the Urea Synthesis reactors to form water vapor.

It is used to remove hydrogen from CO<sub>2</sub> oxygen in excess of the stoichiometric amount required.

BASF Catalysts can provide, upon request, technical advice and recommendations on catalyst operating conditions and reactor layout.

### Poisons

The catalyst will last indefinitely provided that it is not subjected to poisoning by certain impurities. The principal poisons are sulphur, chlorine compounds, oil, unsaturated hydrocarbons and the vapors of some organic solvents. These materials will deactivate and may eventually poison the catalyst permanently.

### Storage

Deoxo R catalyst does not deteriorate or constitute any hazard when stored in sealed containers. The containers should not be allowed to become damp or wet and should not be stored in contact with organic or easily oxidized vapors. Compounds containing Sulphur or heavy metals may poison the catalyst.

### Typical Properties

Platinum, wt%	0.3
Loss on Drying at 105° C, wt %	1
Nominal Diameter mm (in.)	3.2 (1/8)
Nominal Length, mm (in.)	3.2 (1/8)
Apparent Bulk Density, g/ml	1.0
Surface Area, m <sup>2</sup> /g	90
Pore Volume, ml/g	0.28
Deoxo Activity	50
Side Crush Strength, Kp	7

## 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. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF Catalysts develop unique, proprietary catalyst and adsorbent solutions that drive customer success

### **BASF - The Chemical Company**

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