BASF
We create chemistry

Product Data Sheet

NaphthaMax®

Fluid Catalytic Cracking (FCC) Catalyst for Gas oil feedstock

NaphthaMax is a FCC catalyst designed for short contact time applications.

Technology

Based on our commercially proven Distributed Matrix Structures™ (DMS) technology, NaphthaMax is designed to provide enhanced diffusion of feed molecules to pre-cracking sites that are located on the external, exposed surface of highly dispersed zeolite crystals. The feed precracks on the zeolite itself, rather than on an active amorphous matrix material. This provides better selectivities and minimizes the secondary diffusion reactions to less valuable products.

The optimized porosity of the DMS technology reduces the mass transfer limitations present in all FCC operations, giving more effective zeolite utilization, and less overcracking to coke and gas. This allows high bottoms conversion with low coke, and higher yields of valued gasoline and light olefin products.

Applications

NaphthaMax is ideally suited for use in the following units seeking additional profitability:

- Units configured with advanced short contact time riser termination designs, which allow the benefits of high activity catalysts to be realized
- Units operating at or near air blower and/or wet gas limitations
- Units at or near circulation limits
- Units processing high degree of coker based feedstocks at low to moderate metals
- Units processing highly hydrotreated gas oil feedstocks

Typical Properties*	
Chemical Composition	
Al_2O_3, wt%	36-42
Na_2O, wt%	0.25-0.31
Surface Area, m^2/g	250-350
Density	
ABD, g/cm^3	0.68-0.87
Particle Size	
APS, µm	75
0-40, %	12

* Particle size distribution is customized to optimize performance depending on individual FCC unit requirements.

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

Asia Pacific
BASF South East Asia Pte Ltd
7 Temasek Boulevard
#35-01 Suntec Tower One
Singapore 038987

Europe, Middle East, Africa
BASF SE
67056 Ludwigshafen, Germany

Global Email
refining-catalysts@basf.com

www.catalysts.basf.com/refining

BF-10478 Rev. 12/17