



The Chemical Company

Product Data Sheet

Maximum Olefins Additive (MOA)

Fluid Catalytic Cracking (FCC) additive for maximum LPG olefins and gasoline octane enhancement

BASF Catalysts proudly introduces the next generation of ZSM-5 based additives which flexibly and cost-effectively maximize LPG olefins and gasoline octane from the FCCU.

Premium Technology

ZSM-5 based additives convert linear or near-linear gasoline range olefins into LPG olefins in combination with increasing gasoline octane. MOA maximizes both of these objectives at low dry gas make and the lowest fines make.

Maximum Results by Design

MOA is designed and manufactured to create a matrix structure that maximizes conversion at high performance retention and stability. Excellent attrition resistance is another benefit resulting from BASF Catalysts' production expertise.

Combining the Benefits

Additional benefit can be achieved by matching MOA with BASF Catalysts' Distributed Matrix Structure (DMS)-based FCC catalysts. The greater selectivity of our DMS-based FCC catalysts increases the gasoline range olefins make. This enhances the ability of MOA to produce even more LPG olefins and increase gasoline octane.

Packaging

- 55 gallon drums
- 1 ton super sacks
- 1 ton tote bins
- Bulk (greater than 15 tons)

Typical Properties

Surface Area

TSA, m ² /g	105
------------------------	-----

Chemical Composition

Na ₂ O, wt. %	0.20
--------------------------	------

Density

ABD, g/cm ³	0.80
------------------------	------

Particle Size*

APS, μm	89
---------	----

0-40, %	10
---------	----

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

About BASF

BASF Catalysts is the Global Leader in Catalysis, and is part of BASF - The Chemical Company. By leveraging our industry-leading R&D platforms, BASF's global research infrastructure and our passionate pursuit of innovation, we develop unique, proprietary technologies that drive customer success. Our catalytic solutions cover a wide range from chemical and refinery processes, to adsorbents and mobile emissions. In addition, we offer broad experience in trading base and precious metals.

BASF - The Chemical Company

BASF Catalysts Headquarters

BASF Catalysts LLC
25 Middlesex/Essex Turnpike
P.O. Box 770
Iselin, NJ 08830-0770
Tel: +1-732-205-7188
Fax: +1-732-205-7725
Email: refining-catalysts@basf.com

Asia Sales Office

BASF South East Asia Pte Ltd
7 Temasek Boulevard
#35-01 Suntec Tower One
Singapore 038987
Tel: +65-6337-0330
Fax: +65-6398-5104
Email: refining-catalysts@basf.com

Europe, Middle East, Africa Sales Office

BASF plc
Earl Road, Cheadle Hulme
P.O. Box 4
Cheadle, CHESHIRE, SK8 6QG, UK
Tel: +44-(0)-161-488-5156
Fax: +44-(0)-161-485-5487
Email: refining-catalysts@basf.com

For more information, contact the BASF Catalysts office in your region or visit

www.catalysts.basf.com/refining

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. © 2008 BASF Catalysts