



ZIP Olefins Additive

Fluid Catalytic Cracking (FCC) additive for LPG production and enhanced gasoline octane

ZIP Olefins Additive, a ZSM-5-based additive has a multi-stage phosphorous treatment to maximize propylene yield and gasoline octane from the FCC unit

Premium Technology

ZSM-5-based additives convert linear and near-linear gasoline range olefins into LPG olefins while also increasing gasoline octane. ZIP Olefins Additive maximizes these objectives with low dry gas yield and low fines make.

Improving Olefins Yield

ZIP Olefins Additive provides maximize propylene production at equal ZSM-5 zeolite content. BASF's novel multi-stage phosphorous treatment provides targeted phosphorous addition, enhancing acid site strength and stability leading to increased propylene yield and selectivity as well as improved attrition resistance.

Combining the Benefits

ZIP Olefins Additive works best when combined with a base FCC catalyst that supplies maximum feed for cracking to LPG, such as one based on BASF's award-winning and commercially-proven Distributed Matrix Structures (DMS) technology. DMS-based catalysts deliver increased gasoline yields and

gasoline-range olefins providing maximum feed for ZIP Olefins Additive to convert LPG.

Packaging

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

Typical Properties	
Surface Area	
TSA, m²/g	100
Chemical Composition	
Na ₂ O, wt %	0.20
Density	
ABD, g cm ⁻³	0.80
Particle size*	
APS, μm	89
0-40, %	10

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

Distributed Matrix Structures 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. © 2015 BASF