



The Chemical Company

Product Data Sheet

Converter[®] Additive

Fluid Catalytic Cracking (FCC) additive reduces slurry yield over 50%

Goal met quickly and economically

BASF Catalysts' Converter is an FCC additive based on the Distributed Matrix Structure (DMS) technology platform. It is designed to provide refiners with a flexible tool to convert less valuable feeds to higher valued products.

Goals

Refiner requested:

- Rapid reduction in FCC slurry yield without an increase in regenerator temperature.

Action

We recommended:

- Use BASF Catalysts' Converter FCC additive for activity enhancement.
- Addition rate of 25% of the fresh catalyst usage level (base catalyst and Converter additive).

Results

The trial of the Converter additive was an outstanding success! The following results were accomplished in 6 weeks.

- Slurry yield decreased by approximately 50% of the typical base level.
- Slurry gravity decreased from 10+ to 6-7 API.
- Regenerator temperature continued to run at the base temperature.
- Refiner has the opportunity to process additional resid feed.

Commercial trial data of Converter

	Before	After
Relative fresh feed rate	1.0	1.0
Base FCC catalyst addition rate, lb/bbl	0.21	0.16
Converter addition rate, lb/bbl	0.0	0.05
Slurry yield, vol% FF	Base	~ 50% Base
Slurry API	10+	6 to 7
Regenerator temperature	Base	Base
E-cat metals Ni+V, ppm	12,700	12,700

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

Converter 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. © 2008 BASF Catalysts