



The Chemical Company

Performance Profile

Converter[®]

Fluid Catalytic Cracking (FCC) additive succeeds in high activity catalyst operation

Converter is an additive from BASF Catalysts' Distributed Matrix Structure (DMS) technology platform designed to provide today's refiner with a flexible tool to convert less valuable feeds to higher valued products.

Goals

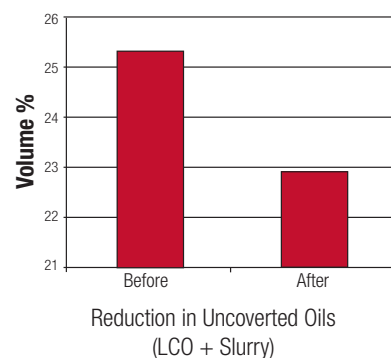
- Increase unit profitability.
- Reduce operating costs.
- Increase conversion by shifting yields from unconverted oils to gasoline.

Plan

- Use BASF Catalysts' Converter to improve the selectivity of the already high catalyst activity.
- Partial substitution of fresh cat addition with a lower amount of Converter.
- Use Converter in conjunction with NaphthaMax[®] – a high activity catalyst.

Results

- BASF Catalysts' Converter supports refinery's strategic intent!
- Improves profitability through increasing gasoline yield and lowering operating costs.
- Higher cat/oil enables greater value generation through enhanced conversion.
- Operating costs lowered by maintaining activity with Converter addition only.
- Converter addition of 0.08 pound/bbl allowed refinery to maintain effective activity.



Commercial trial data of Converter

	Before	After
Relative fresh feed rate	1.0	1.0
Gasoline yield, vol. % FF	Base	+2.7
LCO yield, vol. %	Base	-1.7
Slurry yield, vol. % FF	Base	-0.7% Base
Regenerator temperature, °F	1272	1266
Ecat FACT	78	79
Total Surface Area m ² /g	190	195

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

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