

Performance Profile

Converter[®]

Fluid Catalytic Cracking (FCC) additive improves profitability

Gasoline production increased and slurry yields decreased at constant regenerator temperature during peak season.

Converter[®] is an FCC 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

- Maintain FCC feed rate, at maximum throughput.
- Reduce slurry-make, which determines refinery feed rate.
- Ensure no increase in coke-make or regenerator temperatures.

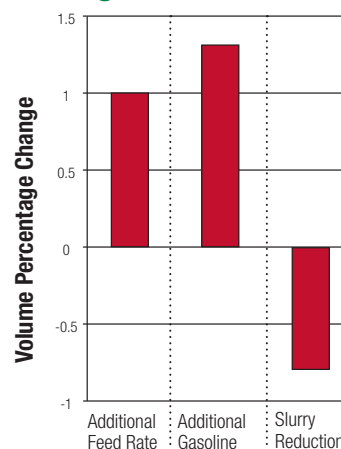
Plan

- Use BASF Catalysts Converter to improve bottoms upgrading and coke selectivity.
- Introduce Converter by substituting 10% of the fresh catalyst addition rate.

Results

- The performance of the Converter additive exceeded customer expectations.
- Converter allowed the unit to maintain maximum conversion at maximum feed rate.
- Value added conversion was achieved at constant regenerator temperatures.
- Converter additive can be used with any type of FCC catalyst.

Converter Upgrades Slurry During Peak Season



Commercial trial data of Converter

	Before	After
Relative fresh feed rate	1.0	1.03
Gasoline yield, vol. % FF	Base	+1.3
Slurry yield, vol. % FF	Base	-0.9
Regenerator temperature, °F	1368	1365
Ecat metals (ppm) Ni, V, Fe	1400/1600/1300	1400/1600/01500

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.

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