

Converter[®]

Fluid Catalytic Cracking (FCC) co-catalyst improves profitability

Gasoline production increased and slurry yields decreased at constant regenerator temperature during peak season with addition of Converter

Introduction

BASF designed Converter, a part of the Distributed Matrix Structures (DMS) technology, to give refiners a flexible tool for reducing slurry while maintaining FCC feed rate at maximum throughput.

An FCC unit replacing 10% of its fresh catalyst with Converter hopes to improve bottoms upgrading and coke selectivity all while maintaining regenerator temperatures and maximum throughput.

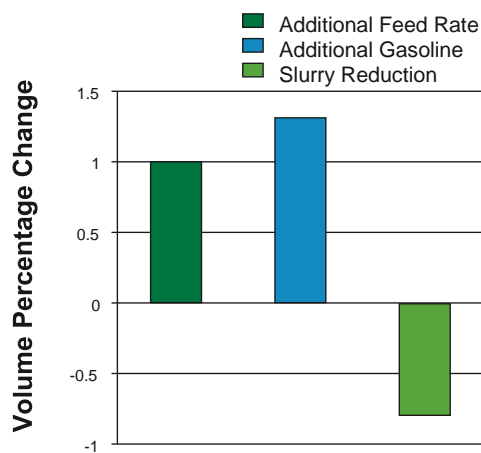
Results

The performance of Converter co-catalyst exceeded customer expectations by:

- Allowing the unit to maintain maximum conversion at maximum feed rate

- Achieving higher-value conversion even at constant regenerator temperatures
- Satisfying the unit's needs when combined with any type of FCC catalyst

Figure 1. Converter shows increased conversion



Commercial Trial Data for Converter

	Before	After
Relative fresh catalyst 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	1400/1600/1500

About Us

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BASF - We create chemistry

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