



The Chemical Company

## Product Data Sheet

# Ultra Stable Promoter (USP™)

## Fluid Catalytic Cracking (FCC) additive for CO combustion promotion

BASF Catalysts proudly introduces USP for the catalytic oxidation of CO to CO<sub>2</sub> in an FCC regenerator. The USP promoted CO oxidation takes place in the dense phase in the regenerator and hence allows control of the CO content of the off-gas, as well as controlling the thermal CO afterburn in the dilute phase.

### Premium Technology

USP allows more efficient oxygen utilization in the dense phase of the regenerator increasing the oxidation of CO to CO<sub>2</sub> and reducing the CO available in the dilute phase. The oxidation of CO to CO<sub>2</sub> in the dilute phase, afterburn, can lead to localized high temperatures and mechanical damage. USP use reduces CO emissions and controls afterburn.

### Maximum Results by Design

USP is designed and manufactured to provide a long active lifetime through the stability of the support and the dispersion of the platinum on the additive particles.

### Combining the Benefits

Additional benefit can be achieved by matching USP with BASF Catalysts' DMS-based FCC catalysts. The high activity of our DMS-based FCC catalysts diminishes or eliminates the reduced overall activity that is caused by the dilution effect of additives addition to FCC catalysts from other suppliers.

### Packaging

- 2, 5, or 10 lb bags in pails or drums
- 40 lb pails
- 55 gallon drums
- 1 ton super sacks
- 1 ton tote bins

### Typical Properties

#### Chemical Composition

Platinum, wppm	500–800
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#### Density

ABD, g/cm <sup>3</sup>	1.0
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#### Particle Size\*

APS, μm	76
0-40, %	6

\*Particle size distribution is customized to optimize performance depending on individual FCC unit requirements.

## 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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