



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 CO₂ 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 CO₂ and reducing the CO available in the dilute phase. The oxidation of CO to CO₂ 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 ³	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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