



The Chemical Company

Product Data Sheet

SOXCAT™ Extra

Fluid Catalytic Cracking (FCC) additive for the reduction of SO_x emissions

BASF Catalysts proudly introduces SOXCAT Extra, for the catalytic control of SO_x emissions to assist refiners to meet the ever-tightening air quality limits being imposed on FCC regenerator off-gas emissions.

Premium Technology

SOXCAT Extra captures SO_x in the FCC regenerator and releases the sulfur as Hydrogen Sulfide (H₂S) in the FCC reactor. SOXCAT Extra has two functions — SO₂ oxidation to SO₃ and SO₃ capture and release.

Approximately 5 to 10 percent of the feed sulfur is tied up in the coke and is transferred to the regenerator where it is all oxidized to SO_x. SOXCAT Extra can reduce the SO_x in the FCC regenerator off-gas to less than 25 ppm. The resultant increase in H₂S is typically within the limits of the existing sulfur recovery system.

Maximum Results by Design

SOXCAT Extra is designed to provide a cost-effective catalytic solution to SO_x emission control. SOXCAT Extra can either be pre-blended with BASF's FCC catalysts or added separately to the FCC unit.

Combining the Benefits

Additional benefit can be achieved by matching SOXCAT Extra with BASF Catalysts' Distributed Matrix Structure (DMS)-based FCC catalysts. The high activity of our DMS-based FCC catalysts diminishes or eliminates the dilution effect that FCC additives can have on other FCC catalysts due to the reduced overall activity of the catalyst in the system.

Packaging

- 55 gallon drums
- 1 ton tote bins
- 1 ton supersacks

Typical Properties

Density

ABD, g/cm ³	0.86
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Particle Size*

APS, μm	90
0–40, %	10

*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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BF-8505 Rev. 11/08