



The Chemical Company

## Product Data Sheet

# Low Sulfur Additive (LSA)

## Fluid Catalytic Cracking (FCC) additive for the reduction of sulfur in gasoline

BASF Catalysts proudly introduces Low Sulfur Additive (LSA) for the reduction of sulfur in gasoline produced from an FCC unit. LSA can assist refiners in meeting the low sulfur gasoline regulations required by the worldwide legislative drive to improve air quality.

### Premium Technology

Low Sulfur Additive (LSA) targets gasoline volume expansion while reducing sulfur compounds in gasoline without octane loss. The reduction of sulfur in FCC gasoline is a requirement in low sulfur gasoline markets because 90 percent of gasoline sulfur is derived from FCC gasoline. The combination of feed hydrotreating, FCC catalysts and additives, post-treating or cut-point adjustment is utilized by refiners to meet low sulfur specifications. LSA can be a cost effective contributor to sulfur reduction in gasoline.

### Maximum Results by Design

LSA is a proven additive for the reduction of sulfur in gasoline. In numerous tests, 35 percent reduction in sulfur gasoline has been demonstrated. LSA in combination with other sulfur reduction processes - such as FCC Gasoline Hydrodesulfurization units - can improve the ability to economically achieve very low sulfur specifications such as 10 ppm.

LSA is a range of products depending upon the specific requirements of the refinery and FCCU. BASF Catalysts' expertise in sulfur reduction will aid refiners in selecting the most appropriate product for your application.

### Combining the Benefits

Additional benefit can be achieved by matching LSA with BASF Catalysts' Distributed Matrix Structure (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

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

### Typical Properties

#### Density

ABD, g/cm<sup>3</sup> 0.79–0.90

#### Particle Size\*

APS, μm 74–95

0–40, % 6–14

\*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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