

NaphthaClean[®]

Fluid Catalytic Cracking (FCC) technology for reducing gasoline sulfur

BASF produces NaphthaClean technology designed for the reduction of sulfur without lowering gasoline production

Premium Technology

Based on the combination of BASF's award-winning and commercially-proven Distributed Matrix Structures (DMS) technology and sulfur reduction technology, NaphthaClean gives the refiner both maximum gasoline production and maximum gasoline sulfur reduction.

This technology demonstrated 25-40% sulfur reduction in gasoline and provides refiners with the additional flexibility to reduce gasoline sulfur via cut-point control. This can be achieved while preserving or even increasing gasoline yield due to NaphthaClean's improvement of gasoline selectivity. The additional benefits of low coke and gas selectivity as well as improved bottoms cracking associated with the DMS platform are still maintained.

Sulfur reduction is a requirement in low sulfur gasoline markets because 90% of gasoline sulfur is derived from FCC gasoline. The combination of feed hydrotreating, FCC

catalyst and additives, and post-treating or cut-point adjustment is utilized by refiners to meet low sulfur specifications. NaphthaClean can be a cost-effective contributor to sulfur reduction in gasoline.

Typical Properties*

Chemical Composition

Al ₂ O ₃ , wt %	36-45
Na ₂ O, wt %	0.22-0.37
REO, wt %	1.0-5.0
Surface Area, m ² /g	200-350

Density

ABD, g/cm ³	0.67-0.93
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Particle size

APS, μm	75
0-40, %	12

*Properties can be customized to individual refiners' needs. These are the typical ranges that can be achieved.

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

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