

Stamina[®]

Fluid Catalytic Cracking (FCC) Catalyst for maximizing distillate yield from resid feeds.

Stamina[®] is a premium FCC catalyst that helps refiners processing resid feedstocks to meet the increased global demand for diesel fuels.

Technology

Stamina combines the high matrix activity needed for Light Cycle Oil (LCO) maximization and the enhanced macroporosity required for resid molecule access. The result — a high-activity, high-stability matrix technology that cracks the heaviest resid feeds to maximize distillate yields.

Stamina derives from both the advanced stable matrix technology of our proprietary platform **Prox-SMZ** (Proximal Stable Matrix and Zeolite) and the proven metals passivation expertise of BASF to effectively handle harsh metal contaminants like nickel and vanadium.

The porosity is tailored to provide optimum performance on heavy resid feeds. The result is the highest bottoms conversion per unit of coke production to aid in Light Cycle Oil (LCO) maximization.

Applications

Stamina has specifically been developed for use in the following situations:

- FCC units wanting to maximize LCO production
- FCC units processing resid feedstock desiring deep bottoms conversion
- FCC units with severe metal contamination concerns
- FCC units with high vanadium and nickel content feeds

Target Properties

Chemical Composition

Al₂O₃, wt% 36-48

Na₂O, wt% 0.2-0.35

Surface Area, m²/g 230-330

Density

ABD, g/cm³ 0.68-0.88

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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