

PetroMax™

Fluid Catalytic Cracking (FCC) Catalyst with application versatility

BASF's PetroMax FCC Catalyst provides a balance of matrix and zeolite activity for high conversion from hydrotreated and vacuum gas oil feeds.

Technology

PetroMax combines selective zeolitic cracking with moderate matrix activity in a catalyst with a wide range of activity and rare earth levels. The balance of matrix and zeolite delivers high conversion with hydrotreated and VGO feeds.

A proprietary active matrix enables pre-cracking of large hydrocarbon molecules on the catalyst surface prior to further reaction in zeolite structures. Activity is also achieved with BASF's zeolite technology. The result is a catalyst with high hydrothermal stability and a balanced matrix to zeolite ratio to deliver high conversion with good Light Cycle Oil (LCO) yields.

Applications

PetroMax is a versatile FCC catalyst and is suited for use in the following situations:

- Units that operate with highly hydroprocessed feedstocks desiring higher regenerator temperatures
- Units wanting to maximize LCO production
- Units with particulate emissions concerns
- Units needing higher catalyst activity in circulation limited operation to improve economic performance
- Units requiring a higher density catalyst for improved operability

Typical Properties*

Chemical Composition

| | |
|--------------------------------------|-----------|
| Al ₂ O ₃ , wt% | 33-40 |
| Na ₂ O, wt% | 0.22-0.37 |
| Surface Area, m ² /g | 200-384 |

Density

| | |
|------------------------|---------|
| ABD, g/cm ³ | 0.7-0.9 |
|------------------------|---------|

Particle Size

| | |
|---------|----|
| APS, μm | 75 |
| 0-40, % | 12 |

* Catalysts properties are 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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