

# News Release

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## **New Fourtitude™ FCC catalyst maximizes butylenes helping to improve performance for refiners**

- **Catalyst features superior butylene selectivity and maintains high catalytic activity**
- **Fourtitude™ enables increased propylene yields, gasoline octane and improved coke selectivity**
- **Customers can benefit from improved plant profitability and overall performance**

BASF launched today Fourtitude™, a new Fluid Catalytic Cracking (FCC) catalyst designed to maximize butylenes from resid feedstocks. Fourtitude, the latest product based on BASF's award-winning multiple framework topology (MFT) technology, is optimized to deliver superior selectivity to butylenes while maintaining catalyst activity.

MFT technology enhances performance through the use of more than one framework topology working together to tailor the catalyst selectivity profile. Fourtitude combines the benefits of MFT and metals passivation technologies to deliver superior butylenes selectivity and metals resistance for resid feedstock applications. The superior butylenes selectivity is achieved by employing a specialty zeolite framework that is more effective at cracking small olefins to butylene.

Fourtitude refinery trials have validated its ability to deliver improved performance for refiners through increased butylenes and propylene yields, increased gasoline octane, and improved coke selectivity.

“Fourtitude is an important addition to BASF’s industry-leading and advanced refinery catalysts portfolio,” said Detlef Ruff, Senior Vice President, Process Catalysts at BASF. “We are pleased to introduce an innovative product to help our customers processing resid feedstocks to improve butylenes selectivity and overall performance of refineries.”

#### **About BASF’s Catalysts Division**

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. Further information on BASF’s Catalysts division is available on the Internet at [www.catalysts.basf.com](http://www.catalysts.basf.com).

#### **About BASF**

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. Around 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €78.6 billion in 2021. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at [www.basf.com](http://www.basf.com).