

# HDUltra<sup>®</sup>

## Fluid Catalytic Cracking (FCC) co-catalyst for light cycle oil (LCO) maximization

**BASF's HDUltra<sup>®</sup> co-catalyst maximizes a unit's LCO production to keep up with economic changes**

### Premium Technology

Based on BASF's Prox-SMZ (Proximal Stable Matrix and Zeolite) technology, HDUltra is the most effective route to increasing LCO yield from an FCC unit. Developed with the highest Matrix Surface Area (MSA = 170 m<sup>2</sup>/g) for increased matrix activity as well as excellent zeolite and matrix stability, HDUltra provides enhanced bottoms cracking while maintaining coke selectivity at maximum LCO production.

### Maximum Results by Design

As a co-catalyst, HDUltra replaces more than the equivalent amount of base FCC catalyst to rapidly change the core performance of the unit. HDUltra achieves this by changing the primary cracking chemistry of the catalyst inventory to maximize LCO production through very high matrix cracking activity and optimal zeolite activity.

### Applications

HDUltra is ideally suited to meet the needs of refiners looking for:

- Rapid operational flexibility to match dynamic FCC product economics
- The ability to extract maximum product value quickly from feedstock
- Optimum profitability without reforming base catalyst properties

### Packaging

- Totes (USA, Canada)
- 1 ton super sacks (all regions)

### Typical Properties\*

#### Surface Area

TSA, m <sup>2</sup> /g	285
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MSA, m <sup>2</sup> /g	170
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#### Density

ABD, g cm <sup>-3</sup>	0.85
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#### Particle size

APS, μm	76
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0-40, %	12
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\* Co-catalyst properties are customized to optimize performance depending on individual FCC unit requirements.

## 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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