CONQUERNOX®

Environmental Fluid Catalytic Cracking (FCC) additive for low NOx promotion

BASF’s FCC additive CONQUERNOX® is a low NOx promoter for the catalytic oxidation of CO to CO2 in an FCC regenerator at low NOx emissions

Premium Technology

CONQUERNOX enables the catalytic oxidation of CO to CO2 with minimum NOx emissions. Increased complete oxidation of CO to CO2 in the FCC regenerator dense phase significantly reduces afterburn, or uncontrolled oxidation of CO to CO2 in the dilute phase.

Novel Base Metal Oxide Composition

BASF developed CONQUERNOX using expertise in NOx emissions reduction catalysts as well as knowledge of the chemistry of base metal oxides. CONQUERNOX’s novel composition unlocks the required chemistry to reduce NOx emissions under regenerator conditions.

This design and manufacturing experience also provides CONQUERNOX with the chemical and physical stability required for effective CO oxidation at reduced NOx emissions combined with a long half-life.

Additional Benefits

CONQUERNOX removes NOx in the FCC regenerator by converting it to nitrogen.

Typical low-NOx promoters have a high copper content which causes hydrogen production, negatively impacting the FCC operation. The use of BASF’s proprietary base metal oxide formulations enables a significantly lower use of copper while providing superior performance.

Packaging

- 2, 5, or 10 lb bags in pails or drums
- 40 lb pails
- 55 gallon drums
- 1 ton super sacks
- 1 ton tote bins

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Density</td>
<td>ABD, g cm⁻³ 1.2</td>
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<tr>
<td>Particle size*</td>
<td>APS, μm 75</td>
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<tr>
<td>0-40, %</td>
<td>11</td>
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</tbody>
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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