EnviroSOx

New SOx additive consistently delivers less than 25 ppm SOx with less additive.

EnviroSOx, BASF’s latest Fluid Catalytic Cracking (FCC) additive, shows superior performance by routinely delivering less than 25 ppm SOx even at high feed sulfur levels.

SOx environmental additives are used to reduce flue gas SOx emissions from the Fluid Catalytic Cracking (FCC) units. EnviroSOx is BASF’s most recent generation of SOx removal additives. With an optimized balance of key components, EnviroSOx offers improved performance, enabling low SOx emissions at a lower addition rate.

A multivariate statistical model using the operating data was developed to evaluate the performance of EnviroSOx vs the incumbent. During the analysis, the modeled and the actual rates were compared.

Results

EnviroSOx showed outstanding performance during the trial. Based on analysis of the statistical model, the refiner was able to use ~ 55 lbs/day less than the incumbent product. This improvement reduced consumption by 14%.

With EnviroSOx, the refinery is consistently able to meet the 25 ppm SOx target even when feed sulfur spikes during feed hydrotreater outages. In addition, EnviroSOx achieved this target with less additive than the incumbent.

Figure 2. Full Burn SOx Emissions Control
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

Americas
BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA
Tel: +1-732-205-5000
Fax: +1-732-205-7725
Email: catalysts-americas@basf.com

Asia Pacific
BASF (China) Co., Ltd.
300 Jiang Xin Sha Road
Pudong, Shanghai 200137
P.R. China
Tel: +86-21-2039 2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa
BASF SE
BASF Nederland B.V.
Tel: +31-30-6669555
Fax: +31-30-6669340
Email: catalysts-europe@basf.com

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