

Product Data Sheet

EnviroSOx

Fluid Catalytic Cracking (FCC) additive for the reduction of SOx emissions

EnviroSOx delivers high SOx reduction performance to cost-effectively assist refiners in meeting tightening air quality limits on FCC regenerator off-gas emissions.

Premium Technology with Reduced Rare Earth Content

EnviroSOx has two functions: SO_2 oxidation to SO_3 and SO_3 capture and release. Approximately 5 to 10 percent of the feed sulfur is retained in the coke and transferred to the regenerator where it is oxidized to SOx. EnviroSOx captures SOx in the FCC regenerator and releases the sulfur as hydrogen sulfide (H_2S) in the FCC reactor. EnviroSOx can reduce the SOx in the FCC regenerator off-gas to below 25 ppm. The resulting increase in H_2S is typically within the limits of the existing sulfur recovery system.

Maximum Results by Design

EnviroSOx is designed to provide a more costeffective catalytic solution to SOx emission control with a lower rare earth content without sacrificing performance. EnviroSOx can either be pre-blended with BASF's FCC catalysts or added separately to the FCC unit.

Combining the Benefits

Additional benefits can be achieved by matching EnviroSOx with BASF's Distributed Matrix StructuresTM (DMS)-based FCC catalysts. The high activity of DMS-based FCC catalysts diminishes or eliminates the dilution effect that FCC additives can have on the activity of other FCC catalysts in the system.

Packaging

- 55 gallon drums
- 1 ton super sacks
- 1 ton tote bins

Typical Properties	
Rare Earth Content	
CeO ₂ , wt %	11
Density	
ABD, g/cm ³	0.85
Particle size	
APS, μm	85
0-40, %	8

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

Asia Pacific

BASF South East Asia Pte Ltd 7 Temasek Boulevard #35-01 Suntec Tower One Singapore 038987

Europe, Middle East, Africa BASF SE 67056 Ludwigshafen, Germany

Global Email refining-catalysts@basf.com

SOXCAT and Distributed Matrix Structures are trademarks of BASF

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF