



Hoekstra Trading LLC

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## *Hoekstra Research Report 12*

### Catalyst testing for FCC gasoline desulfurization- request for participation

Hoekstra Trading LLC will sponsor a catalyst testing program on FCC gasoline desulfurization catalysts during the summer of 2022. The tests will be done by Avantium Catalysis on their high-throughput catalyst testing platform using our standard gasoline desulfurization catalyst test protocol which is a 12 day test at 3 temperatures.

Excellent new catalysts are available for this service. We will compare and rank 13 commercially-available catalyst samples based on desulfurization activity and octane/sulfur selectivity when desulfurizing a full-range FCC naphtha to a range of 10-100 ppm product sulfur. There will be 3 replicate samples of a reference catalyst for 16 catalysts total.

This program will enable you to confidently buy better catalysts at better prices for your FCC gasoline desulfurizers in the future.

We have established a 40% discount for refiners who commit by June 15 to purchase the test results to be released September 30, 2022. The discounted price is \$30,000 for refiners under 1 million barrels/day corporate capacity and \$45,000 for refiners over 1 million barrels/day corporate capacity. Payment will be due October 30, 2022. Please secure your discount by issuing a purchase order by June 15, 2022. A sample invoice is attached with all the information needed to issue a purchase order.

Thank you.

George Hoekstra

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## SAMPLE INVOICE

### Hoekstra Trading LLC

DATE: SAMPLE  
INVOICE NUMBER: SAMPLE

421 Janes Ave. Unit 102, Bolingbrook IL. 60440  
Phone +1 630 330 8159  
[George.hoekstra@hoekstratrading.com](mailto:George.hoekstra@hoekstratrading.com)  
PNC Bank of Ohio ABA number 071921891 account number **4712186382**  
swift code pncus33  
EIN 26-3221486

TO: _____	
<b>Payment terms</b>	<b>Due date</b>
30 days from invoice	Oct. 30, 2022

quantity	description	unit price USD	line total USD
	Purchase order number _____		
1	<b>Hoekstra Research Report 12</b> -- Catalyst test report/ranking	\$30,000	\$30,000
1	-- on site presentation and consultation	No charge	No charge
1	--3 months unlimited consultation by phone and E-mail	No charge	No charge
		Total	\$30,000