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Lummus Catofin
Process
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The CATOFIN® technology is a unique process for the production of olefins, such as propylene (from propane) and isobutylene (from isobutane). Lummus Technology has exclusive worldwide licensing rights to this technology. The catalyst is produced by Clariant, a leading company in the development of process catalysts.

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CATOFIN®

Propane/Butane Dehydrogenation

Propylene Process by Lummus Technology Technology for dehydrogenation of propane to make highpurity propylene. The CATOFIN process uses specially formulated proprietary catalyst from Süd-Chemie. Description: The CATOFIN reaction system consists of

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parallel fixed-bed reactors and a regeneration air system.

Propylene Process by Lummus Technology | Process Engineering

The BASF NMP-butadiene extraction process offered by Lummus Technology is the preferred technology for the production of high purity 1,3 butadiene

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from crude C 4 cuts.
The process has been
successfully applied in
more than 30 plants
worldwide. Styrenics /
Phenolics / Carbonates

Petrochemicals | Lummus Technology

Lummus Technology
provides a fully-
integrated package of
advanced process
technologies and a
complete spectrum of
engineering,
procurement,

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fabrication and construction services for the refining industry. We offer solutions for clean fuels production, including low sulfur gasoline and diesel, to meet increasingly stringent environmental standards.

Refining | Lummus Technology

Isobutylene Process by
Lummus Technology
Technology for

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dehydrogenation of isobutane to make high-purity isobutylene. The CATOFIN process uses specially formulated proprietary catalyst from Süd-Chemie. The CATOFIN reaction system consists of parallel fixed-bed reactors and a regeneration air system.

**Isobutylene Process
by Lummus
Technology | Process**

Online Library Lummus Catofin Process **Engineering**

Published December 2010. The Catofin catalytic dehydrogenation process features a parallel adiabatic fixed-bed reactor system that can be designed for the production of propylene from propane. The process operates at optimum reactor pressure and temperature to maximize conversion of propane for a high

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yield of propylene. The main features of the Catofin dehydrogenation process include: (1) high per-pass conversion and high catalyst selectivity, (2) no hydrogen recirculation or dilution steam

Propylene Production from Propane by the Catofin Process ...

The PDH unit will use

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McDermott's Lummus Technology CATOFIN dehydrogenation process to produce 750,000 t/y of propylene and is scheduled to be commissioned in 2023. It will feed Ineos' polypropylene units and propylene derivative businesses. A deal has also been signed with Clariant for the long-term supply of catalyst used by the unit.

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Ineos picks McDermott for new PDH unit - News - The ...

- Company to Proceed
with The Chatterjee
Group and Rhône
Capital Agreement -
Plan and Sale
Confirmation Hearing
to Occur as Scheduled
on March 12, 2020
McDermott
International, Inc.
("McDermott" or the
"Company") today

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announced that the Company intends to move forward with the previously announced share and asset purchase agreement to sell all of the Lummus Technology business to a joint ...

McDermott Provides Update on Lummus Technology Sale Process

The process is composed of multiple adiabatic fixed-bed

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reactors that undergo cyclic operations. It is always a concern to maintain CATOFIN® reactor at an optimum condition while overcoming gradual...

(PDF) Dynamic Reactor Modeling Of Catofin® Fixed-Bed Iso ...

Lummus Technology has developed a state-of-the-art pyrolysis furnace in response to the growing ethylene

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demand. We have built more ethylene furnaces than any other ethylene process licensor, representing more than 40% of worldwide capacity. The SRT® furnace is well known for its reliability in capacity, yield, run-length and energy efficiency.

SRT® Ethylene Furnaces - MDR

The CATOFIN process operates at optimized

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reactor pressure and temperature to maximize propylene yield. This plant will utilize Clariant's latest generation CATOFIN catalyst system, including the company's patented metal-oxide Heat Generating Material (HGM) to deliver maximized selectivity at high conversion rates and long run lengths.

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McDermott secures CATOFIN PDH Technology contract in Saudi ...

The plant will operate using McDermott's Lummus Technology process together with Clariant's CATOFIN catalysts to deliver over 840 kilotonnes of propylene annually. Since 2017, CATOFIN technology has won 21 new PDH awards globally, representing more than 15 million

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metric tonnes of propylene.

Clariant's CATOFIN catalysts selected by Advanced ...

The CATOFIN process operates at optimized reactor pressure and temperature to maximize propylene yield.

McDermott Awarded Second CATOFIN PDH Technology Contract ...

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This single-train dehydrogenation unit uses CATOFIN catalyst and Heat Generating Material (HGM) from Lummus Technology's catalyst partner, Clariant, to process 500 KTA of propane and 800 KTA of isobutene for the production of propylene and isobutylene.

**McDermott -
McDermott**

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Announces Successful Startup of ...

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Clariant's CATOFIN™ catalysts selected by Advanced ...

- New Propane Dehydrogenation (PDH) technology award based on the latest generation CATOFIN PDH process by

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McDermott's Lummus Technology and Clariant - Advanced Petrochemical Company (APC) is a...

McDermott Awarded Second CATOFIN PDH Technology Contract ...

McDermott's Lummus Technology will provide the license and basic engineering package of a C3 CATOFIN unit at its new grassroots petrochemical complex

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in Jubail, Kingdom of Saudi Arabia. The unit will have a propylene production capacity of 843,000 metric tonnes per annum.

McDermott wins second CATOFIN PDH technology contract for ...

Successful startup in 2019 leads to second CATOFIN award for a new propane dehydrogenation (PDH) unit in Dongguan,

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Guangdong Province,
China Total new plant
capacity will increase
to 1.2 million MTA
CATOFIN is increasingly
accepted as the
technology of choice
for PDH due to higher
production, reliability,
and return on
investment Shanghai,
July 16, 2020 [...]

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