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Lummus Catofin
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Lummus Catofin Process

The CATOFIN® technology is a unique process for the production of olefins, such as propylene (from propane) and isobutylene (from isobutane). Lummus

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Technology has exclusive worldwide licensing rights to this technology. The catalyst is produced by Clariant, a leading company in the development of process catalysts.

CATOFIN®
Propane/Butane
Dehydrogenation
Propylene Process by
Lummus Technology
Technology for
dehydrogenation of

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propane to make highpurity propylene. The CATOFIN process uses specially formulated proprietary catalyst from Süd-Chemie. Description: The CATOFIN reaction system consists of parallel fixed-bed reactors and a regeneration air system.

**Propylene Process
by Lummus
Technology | Process**

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Engineering

The BASF NMP-butadiene extraction process offered by Lummus Technology is the preferred technology for the production of high purity 1,3 butadiene from crude C 4 cuts. The process has been successfully applied in more than 30 plants worldwide. Styrenics / Phenolics / Carbonates

Petrochemicals |

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Lummus Technology

Lummus Technology provides a fully-integrated package of advanced process technologies and a complete spectrum of engineering, procurement, fabrication and construction services for the refining industry. We offer solutions for clean fuels production, including low sulfur gasoline and diesel, to meet

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increasingly stringent environmental standards.

Refining | Lummus Technology

Isobutylene Process by Lummus Technology Technology for dehydrogenation of isobutane to make high-purity isobutylene. The CATOFIN process uses specially formulated proprietary catalyst from Süd-Chemie. The CATOFIN reaction

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system consists of parallel fixed-bed reactors and a regeneration air system.

Isobutylene Process by Lummus Technology | Process Engineering

Published December 2010. The Catofin catalytic dehydrogenation process features a parallel adiabatic fixed-bed reactor system

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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 yield of propylene. The main features of the Catofin dehydrogenation process include: (1) high per-pass conversion and high catalyst selectivity, (2)

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no hydrogen
recirculation or dilution
steam

Propylene Production from Propane by the Catofin Process ...

The PDH unit will use McDermott's Lummus Technology CATOFIN dehydrogenation process to produce 750,000 t/y of propylene and is scheduled to be commissioned in 2023.

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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.

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

- Company to Proceed with The Chatterjee Group and Rhône

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

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McDermott Provides Update on Lummus Technology Sale Process

The process is composed of multiple adiabatic fixed-bed reactors that undergo cyclic operations. It is always a concern to maintain CATOFIN® reactor at an optimum condition while overcoming gradual...

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**(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 demand. We have built more ethylene furnaces than any other ethylene process licensor, representing more than 40% of worldwide capacity.

The SRT® furnace is

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well known for its reliability in capacity, yield, run-length and energy efficiency.

SRT® Ethylene Furnaces - MDR

The CATOFIN process operates at optimized reactor pressure and temperature to maximize propylene yield. This plant will utilize Clariant's latest generation CATOFIN catalyst system, including the

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company's patented metal-oxide Heat Generating Material (HGM) to deliver maximized selectivity at high conversion rates and long run lengths.

McDermott secures CATOFIN PDH Technology contract in Saudi ...

The plant will operate using McDermott's Lummus Technology process together with

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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 metric tonnes of propylene.

Clariant's CATOFIN catalysts selected by Advanced ...

The CATOFIN process operates at optimized

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reactor pressure and temperature to maximize propylene yield.

McDermott Awarded Second CATOFIN PDH Technology Contract ...

This single-train dehydrogenation unit uses CATOFIN catalyst and Heat Generating Material (HGM) from Lummus Technology's catalyst partner, Clariant, to process

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500 KTA of propane and 800 KTA of isobutene for the production of propylene and isobutylene.

McDermott - McDermott Announces Successful Startup of ...

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

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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.

**McDermott Awarded
Second CATOFIN
PDH Technology**

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Contract ...

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

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

**McDermott Awarded
Second CATOFIN**

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

McDermott wins

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**second CATOFIN
PDH technology
contract for ...**

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

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production, reliability,
and return on
investment Shanghai,
July 16, 2020 [...]

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