

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 iso-butylene (from iso-butane). 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.

[CATOFIN® Propane/Butane Dehydrogenation](#)

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Lummus Catofin Process Chemical Process Economics Program PEP Markit. Propylene Production via Propane Dehydrogenation Part 2. Technology Developments in Propylene and Propylene Derivatives.

[Lummus Catofin Process - Maharashtra](#)

Propylene Process by Lummus Technology Technology for dehydrogenation of propane to make highpurity propylene. The CATOFIN process uses specially formulated proprietary catalyst from S ü d-Chemie. Description: The CATOFIN reaction system consists of parallel fixed-bed reactors and a regeneration air system.

[Propylene Process by Lummus Technology | Hydrocarbon ...](#)

Lummus Technology offers two on-purpose routes to propylene: olefins conversion technology (OCT), which utilizes olefins metathesis, and CATOFIN® propane dehydrogenation. Historically, commercial on-purpose propylene production technologies have accounted for less than 5% of total worldwide propylene production, with the majority supplied as a by-product of steam crackers and fluid catalytic cracking (FCC) units.

[Propylene Production | Lummus Technology](#)

The CATOFIN® technology is a unique process for the production of olefins, such as propylene (from propane) and iso-butylene (from iso-butane). Alkylate Production The Lummus Technology CDAlky® gasoline alkylation technology is an advanced sulfuric acid alkylation process that operates at significantly lower temperatures than conventional technology.

[Propane/Butane Upgrading | Lummus Technology](#)

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Lummus is a leading licensor of proprietary petrochemicals, refining, gasification and gas processing technologies, and a supplier of proprietary catalysts and related engineering. Lummus is a leading licensor of proprietary petrochemicals, refining, gasification and gas processing technologies, and a supplier of proprietary catalysts and related engineering.

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PropyleneProductionbyPropaneDehydrogenation (PDH) 12 CB&I Lummus CATOFIN Technology PDH reaction is an endothermic catalytic process that converts propane into propylene and hydrogen. The figure below illustrates a technology similar to the Catofin process, by Lummus Technology, which uses fixed-bed reactors and a chromium-based catalyst.

[Propylene Production by Propane Dehydrogenation \(PDH\)](#)

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. 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 ...](#)

The CATOFIN process uses fixed-bed catalyst reactors to achieve an appropriate conversion and selectivity with less energy consumption. The CATOFIN process can be operated at optimum reactor pressure and temperature to maximize propane conversion with high propylene yield.

[A Comparative Study between Propane Dehydrogenation \(PDH\) ...](#)

Lummus Technology has 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 process operates at optimum reactor pressure and temperature to maximize conversion and selectivity of propane to propylene, while reducing investment and operating costs. The robust catalyst complies with the Reach regulation of the European Union, and it increases the profitability, sustainability and reliability of plant operations.

[Europe's Largest Propane ... - Process Worldwide](#)

We also develop and present process designs and preliminary economics of propylene production by the three commercialized PDH process technologies: the CATOFIN PDH process licensed by Lummus Technology, the Oleflex PDH process licensed by UOP and the STAR PDH process with oxydehydrogenation licensed by ThyssenKrupp Uhde. Related PEP Reports:

[Propane Dehydrogenation Process Technologies | IHS Markit](#)

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.

[Clariant ' s CATOFIN™ catalysts selected by Advanced ...](#)

The CB&I/LUMMUS CATOFIN process 4-18 Chemistry of the CATOFIN process 4-18 CATOFIN reactor, regeneration, and heat management system 4-19 Development of CATOFIN dehydrogenation catalysis and process 4-20 CATOFIN process configuration 4-22 The Uhde STAR process 4-24

[October 2015 ihs - IHS Markit](#)

The CATOFIN® licensing technology is a process for propane dehydrogenation (PDH) that is employed at numerous facilities worldwide. Licensed by Lummus Technology, it is a process for production of olefins, such as propylene (from propane) and iso-butylene (from iso-butane).

[Multidisciplinary Approach To Improve ... - Process](#)

The olefin product is then optionally sent to a selective hydrogenation process where dienes and acetylenes are saturated to mono-olefins. The olefin stream then goes to an ethylene column where light-ends are removed prior to the propane- propylene splitter where propylene is recovered.