

DuPont Clean Technologies



Hengli Petrochemical Company Successfully Starts up New Alkylation Unit Designed by DuPont Clean Technologies

Hengli can now produce high-quality alkylate product from 100% isobutylene feed.

WILMINGTON, Del, July 24, 2020 – DuPont Clean Technologies (DuPont) is pleased to announce the successful startup and performance test of a 300 KMTA STRATCO® alkylation unit licensed by DuPont at the Hengli Petrochemical Company (Hengli) new refinery complex, Changxing Island Harbor Industrial Zone, China.

The new alkylation unit enables Hengli to produce high-quality alkylate, a key component for cleaner, high octane gasoline, from a 100% isobutylene feed stream. This first-of-a-kind unit was developed through DuPont research into the best ways to maximize product octane and minimize end point with this feedstock. Hengli had awarded DuPont the contract for the new alkylation unit as well as a MECS® Sulfuric Acid Regeneration unit in 2015.

The alkylation unit uses the latest innovative patented XP2 technology by DuPont in the STRATCO® Contactor™ reactor. The reactor enhancement is designed to improve the acid/hydrocarbon emulsion flow path near the tube bundle heat transfer area of the reactor in order to realize significant process benefits and achieve optimal alkylate product quality.

“DuPont Clean Technologies could not be happier with its ability to enable Hengli Petrochemical Company to meet performance guarantees while processing a feed never before processed in an alkylation unit,” said Eli Ben-Shoshan, Global Business Leader, DuPont Clean Technologies. “It’s a groundbreaking achievement and we’re very pleased to provide innovative technology and services that support the operational and business goals of Hengli.”

“We’re delighted that the new alkylation unit is performing to design specifications,” said a unit manager at the Hengli Petrochemical Company. “The fact that we’re able to produce high-quality alkylate with high-octane values from isobutylene by using the STRATCO® alkylation technology benefits our refinery’s overall gasoline pool.”

The STRATCO® Alkylation Technology is a sulfuric acid, catalyzed process that converts low-value, straight-chain olefins into high-value, branched components called alkylate. Alkylate, with its superior blending properties, is a key component for clean gasoline and the STRATCO® Alkylation Technology helps refiners safely produce cleaner-burning gasoline with high octane, low RVP, low sulfur, zero aromatics and zero olefins. STRATCO® alkylation technology is licensed and marketed by DuPont as part of its Clean Technologies portfolio in Overland Park, Kansas. DuPont is the world leader in alkylation technology with more than 100 licensed units worldwide and more than 915,000 BPSD (35,800 KMTA) of installed capacity. DuPont is committed to alkylation research and has extensive experience in assisting refiners with alkylation research, design, start-ups, test runs, troubleshooting, optimization, revamps, expansions, analytical testing, operator training, turnarounds and HAZOP studies.



CONTACTS

DuPont Clean Technologies

Jeannie Branzaru
Tel: +1-913-327-3552
jeannie.e.branzaru@dupont.com

STRATCO® Alkylation Technology

Kevin Bockwinkel
Tel: +1-913-327-3536
kevin.b.bockwinkel@dupont.com

DuPont Clean Technologies – China

Brian Miao
Tel: +86-10-85571075
Brian-Xiao-Bo.Miao@dupont.com

About DuPont Clean Technologies

The Clean Technologies division of DuPont is a global leader in process technology licensing & engineering, with an unwavering commitment to customer support. We provide extensive global expertise across our portfolio of offerings in key applications - MECS® sulfuric acid production, STRATCO® alkylation, BELCO® wet scrubbing and IsoTherming® hydroprocessing. Offering critical process equipment, products, technology and services, we enable an array of industrial markets, including phosphate fertilizer, non-ferrous metals, oil refining, petrochemicals and chemicals, to minimize their environmental impact and optimize productivity. We are dedicated to helping our customers produce high-quality products used in everyday life in the safest, most environmentally-sound way possible, with a vision to make the world a better place by creating clean alternatives to traditional industrial processes. We make everyday life better, safer, cleaner.

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About DuPont

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