

DuPont Clean Technologies



Sinopec successfully starts up two Additional DuPont™ STRATCO® Alkylation Technology Units

The company continues to build alkylation capacity, adding a fifth and sixth STRATCO® alkylation unit to their refining network

WILMINGTON, Del., June 15, 2021 – DuPont Clean Technologies (DuPont) is pleased to announce successful startup of the STRATCO® alkylation units at the Zhongke Refinery and Petrochemical Company LTC refinery in Zhejiang, China and the Sinopec Shanghai Company (SPC) refinery in Jinshan, Shanghai, China. Both STRATCO® alkylation units at Sinopec Zhongke and Sinopec Shanghai are designed to process MTBE raffinate feedstock and produce 9,240 bpsd (360 kmta) and 10,240 bpsd (400 kmta) of alkylate, respectively.

The generation of low-sulfur, high-octane, low-Rvp alkylate with zero olefins enables Sinopec to meet the criteria of the China VI standard at these two refineries.

“In the last few years, DuPont and Sinopec have had the opportunity to start up several STRATCO® alkylation units together, providing DuPont with the opportunity to develop a strong relationship with each refinery. The success in both startup and operation continues to meet and exceed expectations, enabling the Sinopec organization to make a vast amount of high quality alkylate to improve the overall quality of their gasoline pool. We are very appreciative for the experience we’ve had with each of these refineries,” said Kevin Bockwinkel, global business manager, STRATCO® Alkylation Technology.

The startup of the units brings the number of STRATCO® alkylation units in operation at the Sinopec organization to six, with a seventh unit being readied to come online this year.

The Sinopec Shanghai refinery is the second commercialization of the innovative Model 74 Contactor™ reactor. Fundamentally the same as the nearly 350 commercially operating reactors in service throughout the world, the Model 74 Contactor™ reactor reduces the number of total reactors and plot space required, but also results in an overall lower capital cost for the alkylation unit. These reactors continue to offer the refiner the superior product quality, high reliability and on-stream time refiners have come to expect from the STRATCO® alkylation technology. The Model 74 Contactor™ reactor includes the latest reactor improvements and has a volume of 68.1 m³ (18,000 gallons), an increase in volume from the standard size Contactor™ (Model 63) of 43.5 m³ (11,500 gallons) per reactor. Both reactor models are commercially available from DuPont.

STRATCO® alkylation technology is a sulfuric acid-catalyzed process that converts low-value, straight-chain olefins (propylene, butylene and amylene) into high-value, branched components called alkylate. Alkylate is known for its superior blending properties and is a key component for clean gasoline. The technology helps refiners safely produce cleaner-burning gasoline with high octane, low Reid vapor pressure, low sulfur, zero aromatics and zero olefins. Licensed and marketed by DuPont as part of its Clean Technologies portfolio, the STRATCO® alkylation technology is the world-leading alkylation technology with more than 100 licensed units worldwide and more than 915,000 bpsd (35,800 kmta) of installed capacity. DuPont Clean Technologies 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.



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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.

www.cleantechnologies.dupont.com

About DuPont

DuPont (NYSE: DD) is a global innovation leader with technology-based materials, ingredients and solutions that help transform industries and everyday life. Our employees apply diverse science and expertise to help customers advance their best ideas and deliver essential innovations in key markets including electronics, transportation, construction, water, health and wellness, food and worker safety. More information can be found at www.dupont.com