

Advanced catalytic olefins

The Advanced Catalytic Olefins (ACO™) process, converts lower value paraffinic streams, such as straight run naphtha to high value propylene and ethylene. The ACO process yields a product with a P/E ratio of about 0.8 to 1.1, significantly higher than conventional steam cracking process.

Built on Industry-Proven Process Technology

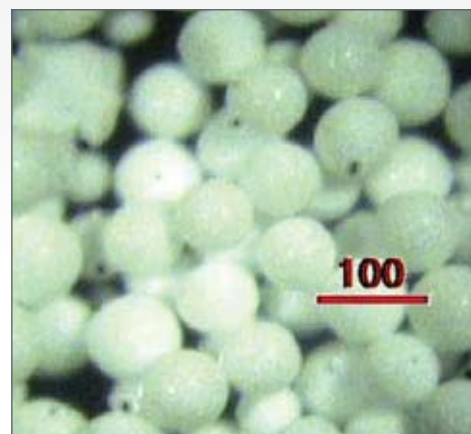
SK Energy developed ACO technology process conditions and proprietary catalysts in their Daejeon R & D facilities. This technology is implemented on KBR's recognized platforms of FCC and efficient ethylene and propylene recovery systems. Both KBR and SK have demonstrated this catalytic conversion technology at their respective pilot testing facilities over extended periods. As the worldwide licensor of this technology, KBR is engineering a unit for SK Energy's facility in South Korea.

Efficient Technology with Higher Yields

Built on a modified zeolite catalyst with proven integrity and patented process operating conditions, ACO provides an efficient technology for greater than 60 percent ultimate yield of propylene plus ethylene from straight run naphtha. Due to the small amount of coke made in the ACO process, KBR uses its proven methodologies to maintain heat balance in the reactor-regenerator system. With the forecasted shortfall in propylene worldwide, ACO technology can help maximize the value addition of propylene and ethylene chains.



ACO shares many similar hardware characteristics as the Sasol SUPERFLEX unit.



The catalyst used in the ACO process has proven integrity and patented process operating conditions.