

Remove Sulfur From Alkylate
 -Your most valuable gasoline
 blending component -
 with **ESTEREXSM**

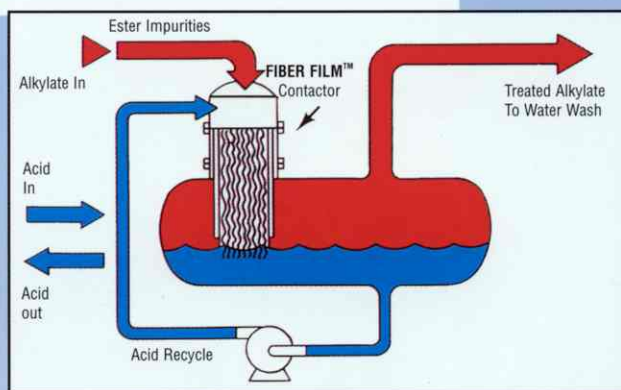


Breakthrough in Ester Removal

ESTEREXSM Keeps Sulfuric Acid Alkylation Units Working.

Operate your sulfuric acid alkylation unit at 100% service factor with ESTEREXSM, Merichem's revolutionary technology for ester extraction. With the ESTEREXSM system purifying the alkylation unit effluent, your refinery operation benefits in five key ways:

- The simple, one-stage ESTEREXSM process is on-line 24 hours a day, 365 days a year, because it doesn't utilize unreliable, easily corroded electrical internals.
- Extraction of both acid and neutral esters is virtually complete, increasing alkylate octane and minimizing downstream maintenance costs in the deisobutanizer tower.
- ESTEREXSM operates efficiently over a wide range of throughput rates and operating conditions for maximum flexibility without costly acid carryover.
- H₂SO₄ is recycled within the unit for even greater efficiency.
- Existing vessels—either conventional acid treaters or obsolete caustic extraction units - can be retrofitted for improved performance and expanded capacity with minimal investment cost.



Contaminated product in - clean product out. ESTEREXSM is based on Merichem Company's patented FIBER-FILM™

technology. Packed with proprietary corrosion-resistant metal fibers, the FIBER-FILM™ Contactor provides a huge surface area for enhanced between the Hydrocarbon phase (red) and the Aqueous phase (blue). The result is more efficient mass transfer without acid entrainment. Separation is quick and complete, requiring extremely short residence times.

ESTEREXSM is just one of many FIBER-FILM™ technologies at work in over 450 applications worldwide. More and more refiners are discovering the FIBER-FILM™ solution to their immiscible liquid/liquid and gas/liquid contact problems. Put Merichem's proven technology to work in your refinery today. Call for more information or a detailed proposal at no cost or obligation.

Representatives worldwide with offices in Abu Dhabi, Argentina, Australia, Austria, Azerbaijan, Bahrain, Belgium, Brazil, Brunei, Chile, China, Colombia, Costa Rica, Denmark, Ecuador, Egypt, Finland, France, Gabon, Greece, India, Indonesia, Italy, Japan, Kazakhstan, Korea, Kuwait, Malaysia, Mexico, New Zealand, Norway, Oman, Pakistan, Peru, Philippines, Portugal, Qatar, Republic of South Africa, Romania, Russia, Saudi Arabia, Singapore, Spain, Sweden, Taiwan, Thailand, The Netherlands, Turkey, Ukraine, United Kingdom, Uruguay, Venezuela and Vietnam.



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