

## PREMIUM CONTENT PROGRAM

GENERATE LEADS AND BUILD THOUGHT LEADERSHIP

### Premium Content Program

*Chemical Processing's* Premium Content Program is a simple and effective method to improve your brand awareness, build thought leadership and generate leads. Premium content assets, such as white papers or eBooks give your company exposure to targeted readers who are actively searching products, services and vendors.

They position your company as a solution expert and provide an invaluable service to our readers who are searching for solutions to their technology or product challenges. Using multiple media platforms *Chemical Processing* will promote your company's white paper to our community of professionals who design, operate, maintain and manage chemical, refining and petrochemical plants.

**Premium Content  
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**CHEMICAL PROCESSING**

# ALERT

Leadership | Expertise | Innovation

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**Infographic: Repairing the Maintenance  
Process With Automation**

Sponsored by Sphera

Every day, people go searching for parts in their inventory, but —without quality data showing what's in stock and where a part is—the search can be time-consuming, sometimes fruitless, often frustrating and many times quite expensive.

Learn how to improve your maintenance program with the implementation of automation practices.

[Read the infographic here](#)

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**PALL** Pall Corporation

### Contaminant Control in Ethylene Production

Effective Separation Methods for Removal of Aerosols and Particulates

**Overview**

Managing contaminants in ethylene production is critical to optimizing production and avoiding unscheduled shutdowns. Many of the process streams in the production of ethylene are inter-related and removing contaminants early on in a process can reduce fouling related issues in downstream process units.

Recent advances in filtration and coalesce technologies used in ethylene plants are presented along with practical filtration and coalesce systems are evaluated based on commercial experience in ethylene plants.

**Separation Technologies**

Separation methods for ethylene production involve a variety of options. Possible solutions include:

**Liquid-Liquid Coalescers**

High efficiency liquid-liquid coalescer systems can process feed streams from ppm levels in the outlet. They can effectively remove low solids concentrations up to 10% and low as 0.5 dyne/cm. The use of polymers and fluoropolymers in the coalescer materials of construction allows for expanded use of coalescers over earlier construction types as they will not disintegrate in the presence of surfactants and can withstand an array of aggressive chemical applications over a wide range of temperatures from -40 °F (-40 °C) up to 300 °F (150 °C). When properly protected by pre filters, liquid-liquid coalescers will have service lives from 1-2 years.

**Figure 1. Coalescing in the Medium**

The liquid-liquid coalescing system operates in three stages: separation of solids, pre-conditioning, coalescence and separation of coalesced drops.