

Butadiene & Isoprene Process Improvement Technologies

Overall Unit Treatment Capabilities

GE Water & Process Technologies has researched and developed advanced technology used to protect Butadiene and Isoprene Plants against carbonyls, foam, popcorn and general fouling.

This continuous development has resulted in high performance treatments that allied with GE's technical services has proven high efficiency in following operation sections:

- Crude C4s and C5s transportation/ storage
- Carbonyls Washing
- C4s Vaporizers
- Extractive Distillation
- Product Purification
- Solvent Recovery

Typical Applications

GE's antifouling treatment programs, based on synergistic blend of inhibitors and passivation technologies, prevent undesired popcorn and general fouling caused by free radicals polymerization, as well as oxygen, peroxides, and iron contamination.

General treatment products by GE mitigate corrosion, foam, and carbonyls increasing plant reliability

Benefits

- Extended unit campaign
- Non-scheduled shutdowns
- Decreased off-spec products
- Increased efficiency in heat transfer equipments and distillation columns

- Reduced risk of contamination of Butadiene Product
- Decreased equipment maintenance and cleaning frequency
- Improved Butadiene/ Isoprene product quality
- Reduction in disposal of hazardous products



Return on Investment

We bring profit-improving technology from chemical treatment programs to control costly Butadiene/ Isoprene process problems, optimizing plant operation costs thru:

- Decreasing distillation column, reboilers and condensers cleanings
- Reducing equipment replacements
- Reducing energy consumption
- Reducing tar handling and disposal
- Reducing outages
- Increasing process efficiency



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