

Nufarm Inhibitors for the Depropaniser and Debutaniser

Naphtha, LPG or lighter gasses are “cracked” to give the range of unsaturated monomers that are used to produce many of our polymers used in everyday life. In various amounts, depending on feedstock, ethylene, propylene and butadiene are produced and separated by distillation. C4s including butadiene can be purified remotely and are often traded. C5+ materials are also produced and separated.

Stable free radicals are well established in the purification of ethylene and propylene. Nufarm staff have many years of experience in the industry and can advise on dosing locations and quantities to prevent fouling.

We currently supply products to both depropanisers and debutanisers.

Case History – Depropaniser: Customer had two depropanizer re-boilers that can be switched, the best run-length before Nufarm treatment was 199 days. After switching to Nufarm products and dosing regime run-lengths of 515 and 410 days were achieved

Case History - Debutaniser: We were approached by a company with severe fouling problems in their debutanizer unit. Typical run-lengths before shutting down to clean the column were 150 days only. Nufarm treatment was started and the plant ran for 4 years until turnaround with no indication of fouling, no pressure drops and no change in steam valve settings. The benefits of this increased run-length on production efficiency and costs are huge.

Nufarm Inhibitors for Compressors

The compressor is one of the most important components of the cracker unit and it can easily suffer from fouling due to the presence of unsaturated species such as styrene and butadiene in the process stream. Many treatments are available, such as wash oil or wash water, dispersants, or polymerisation inhibitors. In many cases a combination of these are used to keep the compressor free of fouling. The best combination of products and the best place for the addition of the treatment is something that Nufarm can help you to select. We have a case history with our local partners in China.

Inhibitor and dispersant are injected together into the first, second and third stages in the heat exchanger feed.