HP NIckTreat

A Non-Metallic Nickel Passivator Additive for FCCUs

Description:

Fluid catalytic cracking unit (FCCU) is one of the most important conversion process used in petroleum refineries. FCCU feed has metals such as Nickel (Ni), Vanadium (V), Iron etc; which slowly deposits on the FCC catalysts. Cracking residue feeds in FCCU increases the level of contaminant Ni and V metals on cracking catalysts. Residue feeds contain higher content of Ni and V. This results in decreasing catalytic activity and increasing contaminant coke and hydrogen yields during catalytic cracking. This will catalyze the undesirable dehydrogenation reaction in the reactor; increasing the gas production in the form of higher hydrogen and coke yield.

HP Green R&D Centre has developed HP NickTreat to minimize H2/CH4 ratio in dry gas in FCC unit. It minimizes the yield of hydrogen and dry gas and thus avoid its detrimental effect on the product yields.

Advantages:

Non-metallic in nature. On par performance with metal based reference additives.

Applications:

FCCU of refineries