IndianOil

INDAdept
Deep Desulphurization Technology

INDAdept®

Adsorption Technology for Deep Desulphurization of Cracked Gasoline

IndianOil R&D has developed INDAdept process and proprietary adsorbent to reduce sulphur from cracked gasoline feedstocks to meet BS-VI/Euro-VI sulphur specifications. The technology comprises of two fixed bed reactors operated in swing mode of adsorption and regeneration, for deep desulphurization of gasoline under optimised operating conditions. In this process, sulphur in gasoline is removed by Reactive Adsorption mechanism. After reaching the Sulphur-Breakthrough point, the adsorbent is regenerated under controlled conditions with lean air (1% O_2 in N_2) by oxidation of adsorbed Sulphur and Coke followed by activation with nitrogen - hydrogen mixture.

Salient Technology Features

- INDAdept is a reactive adsorption based process technology for production of low sulphur gasoline component meeting BS-VI/Euro-VI sulphur specification
- Process comprises of two fixed bed reactors operated in swing mode of adsorption & regeneration

Major Benefits

- Capable of handling heavy cut of cracked gasoline feedstocks like FCC Gasoline, and Coker Gasoline
- Reduces Sulphur content to < 10 ppmw
- Low hydrogen consumption in the range of 0.20 to 0.30 wt% of feed
- Uses low-cost proprietary adsorbent

Commercial Experience

- 35 KTA grassroots unit commissioned in 2017 in one of the Indian refineries

For more information, please contact:

Mr. Avinash Jain
IndianOil R&D
Tel: +91-129-2294396
E-mail: inforndiocl@indianoil.in

IndianOil