

INDAdept[®]

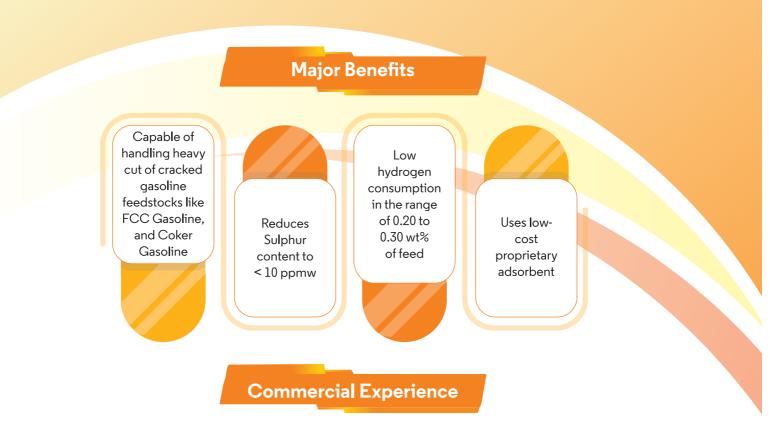
Adsorption Technology for Deep Desulphurization of Cracked Gasoline

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 $(1\% O_2 \text{ in } N_2)$ 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





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



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