

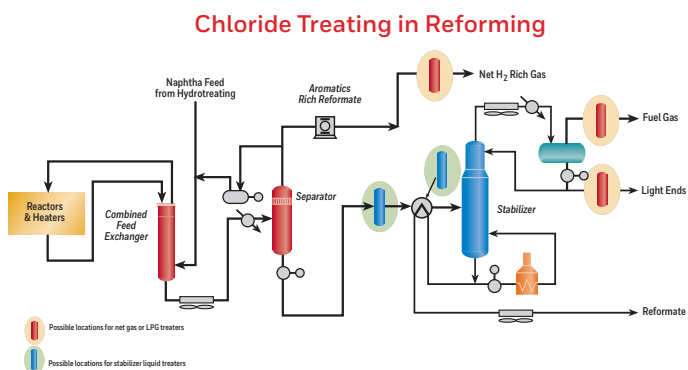


Extend Catalyst Life, Protect Equipment  
and Ensure Product Specifications Are Met

## **Adsorbent Solutions in Refining**

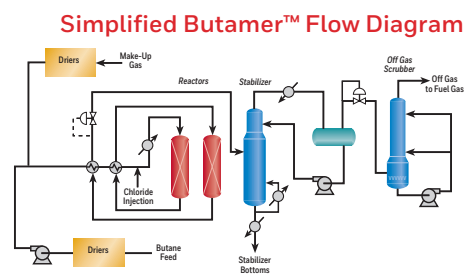
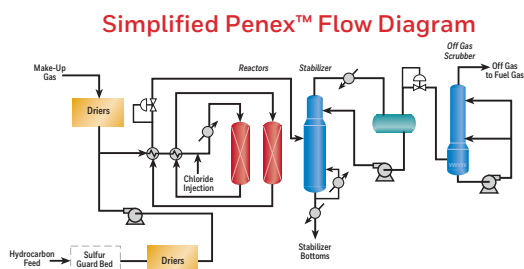
## Adsorbents for Catalytic Reforming

- CLR-204:** Premier, highest capacity product with very low green oil production for net gas and LPG treating
- CLR-454:** Good capacity in net gas treating. Makes no green oil
- PCL-100:** For use in stabilizer feed treating, also removes organic chlorides along with trace HCl
- PCL-200:** Premium product designed for inorganic and organic chloride removal from liquid hydrocarbon streams



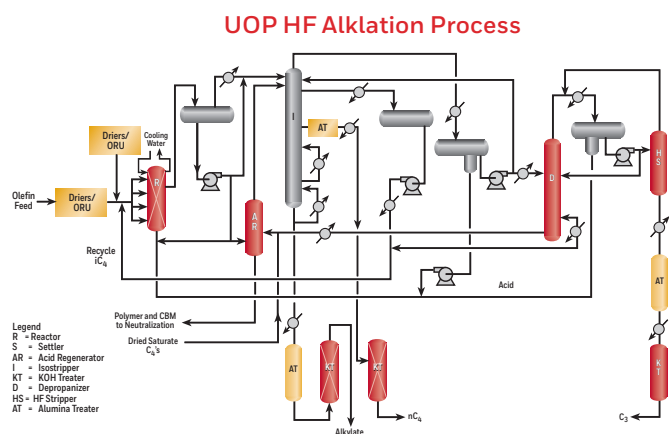
## Adsorbents for Isomerization

- HPG-250 & HPG-429:** Use in feed treaters to remove a broad range of impurities. Add to make-up H<sub>2</sub> dryers for both H<sub>2</sub>O and removal of CO<sub>2</sub>, H<sub>2</sub>S or methanol.
- HPG - 300:** Upgraded high performance grade for feed treater contaminant removal with higher capacity to enable longer adsorbent bed life
- PDG-418:** For moisture removal in make-up H<sub>2</sub> dryers
- ADS-120:** Cost-effective, non-regenerative sulfur removal adsorbent for treating Penex and reforming feed streams
- ADS-130:** Non-regenerable sulfur removal adsorbent for treating BenSat feed streams more sensitive to water. No water generated at start-up.
- ADS-11L:** Thiophene removal in a broad range of refinery streams.
- ADS-18:** Upgraded thiophene removal with lower ABD and higher capacity.



## Adsorbents for HF Alkylation

- GB-346S & GB-347S:** Hg removal from hydrocarbons in feed to alkylation units
- ADG-401:** Use alone to remove water or with HPG-250 or HPG-429 to remove H<sub>2</sub>O and oxygenates in feed dryers
- ORG-E & ORG-HP:** High capacity adsorbent used to purify etherification raffinate streams, used as alkylation feedstocks
- P-188 & A-202HF:** Premier, highest capacity defluorination adsorbent resulting in longer effective bed life
- AZ-300 & AZ-400:** Hybrid alumina-zeolite adsorbent providing excellent removal of H<sub>2</sub>O, COS, RSH, H<sub>2</sub>S, oxygenates and nitrogen compounds



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