

9,000 BPD ISAL (Heavy FCC Gasoline Desulphurization) Unit for Sale

Capacity

390,000 tons per year with 8,000 operation hours (approximately 9,000 barrels per day)

Feedstock

Naphtha from TAME process

Products

Desulphurized naphtha
Light liquid fraction to Merox process
Gases with H₂S

Process Technology

Developed by Intevep SA and licensed by UOP

History

Build in 2005

Major Equipment

- Feedstock Furnace (H-001)
- Hydrotreating Reactor (R-001)
- ISAL Reactor (R-002)
- Feedstock Vessel (V-001)
- Gas H₂S / Water Separator (V-002)
- Recirculation Compressor (C-001)
- Make-up Compressor (C-002)
- Dedutanizer Column (V-006)
- Reflux Vessel (V-007)
- Reboiler (H-002)
- Heat Exchanger for Reactor (E-001)
- Heat Exchanger for Debutanizer (E-002)
- Product Condenser (E-003)



BRIEF PLANT DESCRIPTION

Phoenix Equipment has this used ISAL Unit for sale. The ISAL process is a two-reactor, selective hydrotreating process for treating a wide range of naphtha feedstocks. The process uses a bifunctional catalyst system to desulfurize FCC gasoline and to achieve a controlled transformation of the gasoline hydrocarbons. When treating FCC gasoline, the ISAL process reduces the sulfur content to very low levels, saturates almost all of the olefins and restore the octanes through the specific hydro conversion reactions (hydrocracking, isomerization, de alkylation). ISAL catalyst is specially formulated for the selective hydrocracking of the low octane cuts in gasoline to allow in the end regaining the octanes. This is the major advantage of ISAL process vs. a conventional FCC naphtha hydrotreater, where considerable octane loss occurs with olefin saturation. The operating conditions and process equipment used in the ISAL process are similar to those used in a conventional naphtha hydrotreater. Thus, no special operating procedures are required.

For more information contact -

Edward Zhang, Plant Sales
plants@phxequip.com
+1 732.520.2187 (Direct Dial)
+1 845.242.3378 (Mobile)

To discuss plants you are selling -

Jesse Spector
plants@phxequip.com
+1 732.709.7157 (Direct Dial)
+1 908.902.8854 (Mobile)