

350,000 TPY Ethylene Plant for Sale

Capacity:

- 350,000 TPY ethylene
- 215,000 TPY propylene

Raw Materials:

- Naphtha
- Ethane

Major Equipment

- Naphtha furnace
- Ethane furnace
- Primary cut column
- Oil stripping column
- Distillation column
- Quench tower
- Process water stripping column
- Cracking gas compressor
- Stripping column
- Caustic soda washing column
- Condensate stripping column
- Dryer
- Methanation column
- Hydrogen purification cold box
- Demethanizer
- Methane turbo expander
- De-ethanizer
- Depropanizer
- Propylene conversion column
- C3 cut column
- Propylene compressor
- Debutanizer
- Ethylene conversion column
- C2 cut column
- Ethylene compressor



BRIEF PLANT DESCRIPTION

This complete plant is designed to produce ethylene and propylene from naphtha and gas oil. The plant is still in operation. Major equipment had upgrade in recent years. For example, a new steam cracking furnace was installed in 2000 and is capable to process 40 tons/hr. New compressors and turbines were installed in 2000. Caustic soda of 15 % is used to eliminate sour gases contained in the naphtha feed. The naphtha / ethane furnace has 84% energy efficiency, naphtha / C4 furnace 84% - 90%, ethane furnace 90%, naphtha furnace 90%. Product ethylene is compressed at 17.5 tons/hr with suction pressure at 17 bar and discharge pressure of 80 – 97 bar. The compression is in 2 steps with cooling of every stage's outlet. The unit is controlled through a "digital system of control command". The digital regulation is configured and programmed for the specific applications.

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