

## 60,000 TPY Butadiene Plant for Sale

**Capacity:** 60,000 TPY

**Raw Materials:** C<sub>4</sub>,  
Dimethylformamide

**End Product:** 1, 3-Butadiene

**Downstream Products:**  
Styrene, Acrylonitrile, ABS, Adiponitrile

### Process Information

This process is comprised of two distillation sections and one rectification section

### Major Equipment

- 2 Extractive Distillation Columns
- 2 Stripping Columns
- 2 Fractionator Columns
- Reflux Tanks
- Condensate Tanks
- Heat Exchangers
- Reboilers
- Condensers
- De-gasers
- Compressors & Blowers

### Applications

- Synthetic rubbers
- Automobile tires
- Nylons



### BRIEF PLANT DESCRIPTION

The plant processes the C<sub>4</sub> fraction through an initial extractive distillation using dimethylformamide (DMF), by separating the butylenes and butanes from the butadiene and acetylenics. With a second extractive distillation it separates the vinyl acetylene, and finally, through a rectification process, it separates the methyl acetylene and the heavy hydrocarbons from the 1,3-butadiene (butadiene).

These three main sections are combined with others using vessels to purify the solvent and to additivate the processing of various chemicals from a condensation water circuit, from a tower water circuit and from a flare and draining header.

The produced butadiene has a minimum title of 99.6%. A recovery of 98% in weight is expected in the project conditions compared to the inflowing butadiene with C<sub>4</sub> fraction.

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