BRIEF PLANT DESCRIPTION

The plant processes the C₄ 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 additize 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 C₄ fraction.