

Maleic Anhydride Plant for Sale

Capacity

22,000 - 36,000 tons per year

Years in operation

14 years

Major Equipment

LP/MP/HP steam superheaters
Fixed bed tubular reactors
Scrubber
Crude maleic anhydride boiler
Vacuum purification tanks

Service Offered

Update basic engineering package
Training of laboratory technical people
Training and startup assistance
Catalyst supply



BRIEF PROCESS DESCRIPTION

The plant includes the following process sections: Butane oxidation and product recovery section, First purification phase: Maleic Acid dehydration, Second purification phase: o-Xylene recovery, Third purification phase: Light Ends recovery, Fourth purification phase: Pure Maleic Anhydride recovery, Fifth purification phase: Heavy Ends recovery.

Oxidation section uses two independent standard fixed bed reactors. Each one is able to produce up to 11,000 MT/Y from n-butane feedstock or up to 18,000 MT/Y from benzene feedstock. This kind of reactor may be purchased from several qualified supplier in Europe or US. The reactor may use different catalyst from AMOCO, Lonza, Mitsubishi or Scientific Design with the advantage to be able to purchase each time the best available on the market. Part of crude Maleic Anhydride is condensed directly from process gas before going to reach the recovery section to reduce energy consumption. Recovery section uses a water scrubber without need of volatile solvent. The scrubber was designed to absorb up to 36,000 MT/Y.

Purification section uses two independent batch distillation. Each one is able to produce up to 18,000 MT/Y. Recovery and purification sections may manage up to 36,000 MT/Y of Maleic Anhydride so that it will be possible to install a third reaction train connected to the existing water scrubber to upgrade the total plant capacity from n-butane feedstock to 33,000 MT/Y.

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