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THE BOREALIS GROUP



(2) COMPLETE POLYPROPYLENE PLANTS

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IAM specializes in sourcing plants and processes for the chemical, pharmaceutical, petrochemical, fertilizer, mineral processing, food processing and other process industries.

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PLANT PP1

70,000 ton/yr
Montedison Technology
High Yield Catalyst
Homopolymer

PLANT PP2

70,000 ton/yr
Mitsui Technology
High Yield Catalyst
Homopolymer
ZSK160 Extruders

PP1 – 70,000 ton/yr Propylene Polymerization Plant

The TWO polymerization reactor unit is based on the Montedison Process. The polymerization reaction and the subsequent treatments are carried out in hexane. Hexane acts as catalyst fluid, polymer carrier fluid and as intermediate medium to transfer reaction heat to the cooling system and as solvent for atactic by-products. Due to the high yield catalyst system a removal of residual catalyst from the product is not necessary. The polymerization unit consists of two reactors, catalyst and raw material feed systems, cooling system, dry end and the recovery system for hexane, propylene and atactic products.

PP2 – 70,000 ton/yr Propylene Polymerization Plant

The FOUR polymerization reactor unit is based on a unique slurry polymerization process by Mitsui Petrochemical Industries. The system was used to produce homopolymer polypropylene products in the first two reactors or propylene-ethylene copolymers when using all reactors. In the latter case, the first two reactors were used as homo polymerization reactors and the last two reactors as ethylene-propylene random reactors. In this case, the homo matrix was modified with an additional rubber content. The polymerization reaction and the subsequent treatments are carried out in hexane. Hexane also acts as catalyst fluid, polymer carrier fluid and as intermediate medium to transfer reaction heat to the cooling system and as solvent for atactic by-products. The polymerization unit consists of the four reactors, catalyst and raw material feed systems, cooling system, dry end part and the recovery system for hexane, propylene and atactic PP products.

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