

ORGANO-FLOC OP

Organic Polymer



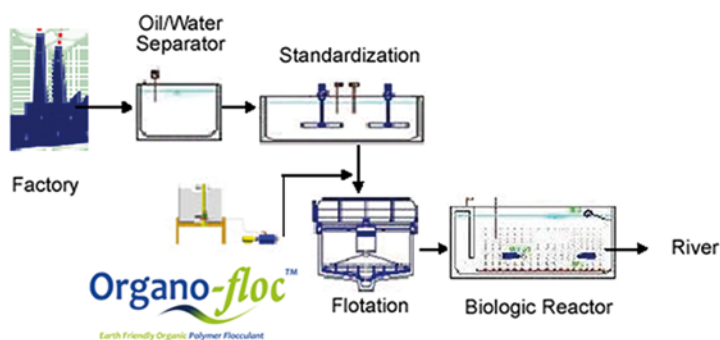
CASE STUDY WWT - PETROCHEMICAL PLANT

CHALLENGE/OPPORTUNITY

A Petrochemical company located in Brazil with a production capacity of 500,000 tons of ethylene per year was using more than 230 tons of inorganic metallic coagulant per year to reduce the COD and O&G in its wastewater treatment plant with satisfactory results and acceptable costs. However, there was some interference with the biological secondary wastewater treatment because of pH fluctuation and metallic content as a result of inorganic coagulant addition.

Organo-floc was adopted in a successful attempt to improve COD, O&G and cost reduction, and as an environmental friendly organic coagulant.

APPLICATION FLOWCHART



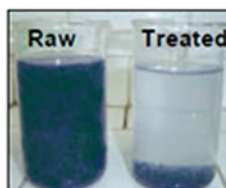
WASTEWATER CHARACTERISTICS

Out-flow	COD	G&O
320-330 m ³ /h	1.025 mg/l	176 mg/l

	Coagulant	
	FeCl ₃	Organo-floc
Dosage	60 ppm	15 ppm
Physical aspect	Dry solid	Liquid

WASTEWATER AFTERTREATMENT

TREATMENT	COD	G&O
INORGANIC	434 mg/l	21 mg/l
Organo-floc	415 mg/l	20 mg/l



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BENEFITS DERIVING FROM THE APPLICATION OF ORGANO-FLOC

- 69% reduction in chemical product use, from 228 ton/year to 71 ton/year;
- Improvement of COD and O&G in as much as 4% and 5%, respectively;
- Rationalised manpower use;
- Generation of biodegradable sludge;
- Health and safety improvement as a result of the use of a non aggressive product.
- Environmental gain thanks to the generation of biodegradable sludge that may be disposed of on farming land.

Organo-Floc

The Organo-floc product range is essentially natural in origin and competitive when compared to products traditionally employed in water treatment with the additional advantage of being totally biodegradable allowing complete digestion at the various biological stages of the process.

Organo-floc products have effective action on several types of water as well as various sorts of industrial effluent. They are usually employed in drinking water treatment and in the treatment of effluents from several sector including petrochemical, ceramic, food, sugar, metal and cellulose industries, oil refineries, mining and domestic sewage.

Organo-floc is compatible with most products on the market and may be used in combination with such products.

Organoc-floc works with minimal interference with the environmental and offers various economic advantages.