

ORGANO-FLOC OP

Organic Polymer



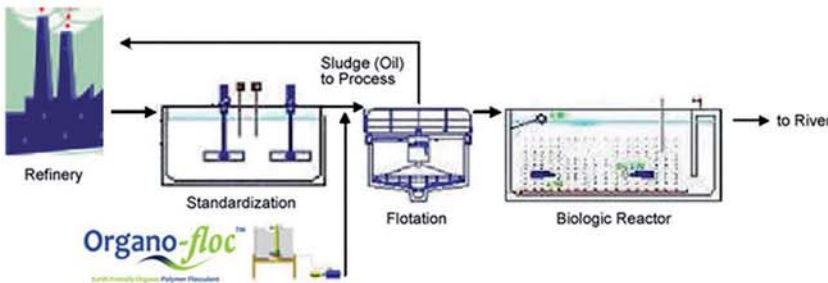
CASE STUDY WWT - REFINERY

CHALLENGE/OPPORTUNITY

A petroleum refinery located in Brazil used more than 180 tons of inorganic metallic coagulant per year in order to reduce COD, H₂S and O&G in its wastewater treatment plant with satisfactory results and costs, but with some interference with the biological treatment (secondary wastewater) because of pH fluctuations and metal content deriving from inorganic coagulant addition.

Organo-floc was tested and approved for permanent use in a successful attempt to improve COD, H₂S, Grease & Oil and cost reduction with the additional advantage of being an environmentally friendly organic coagulant.

APPLICATION FLOWCHART



WASTEWATER CHARACTERISTICS

Out-flow	COD	H ₂ S	G&O
300 m ³ /h	282 mg/l	38 mg/l	185 mg/l

TREATMENT COMPARISSION

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

WASTEWATER AFTERTREATMENT

TREATMENT	COD	H ₂ S	G&O
Al ₂ (SO ₄) ₃	176 mg/l	17 mg/l	46 mg/l
Organo-floc	141 mg/l	11 mg/l	13 mg/l



ORGANO-FLOC OP Organic Polymer



BENEFITS DERIVING FROM THE APPLICATION OF ORGANO-FLOC

- 75% reduction in chemical product handling, from 180 to 45 ton/year;
- Improvement in the reduction of COD, H₂S and O&G in as much as 12%, 16% and 18%, respectively;
- Rationalised manpower use;
- Generation of biodegradable sludge;
- Health and safety improvement as a result of the use of a non aggressive product.

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.

Organo-floc works with minimal interference with the environmental and offers various economic advantages.
anionic coagulant