

ORGANO-FLOC OP

Organic Polymer



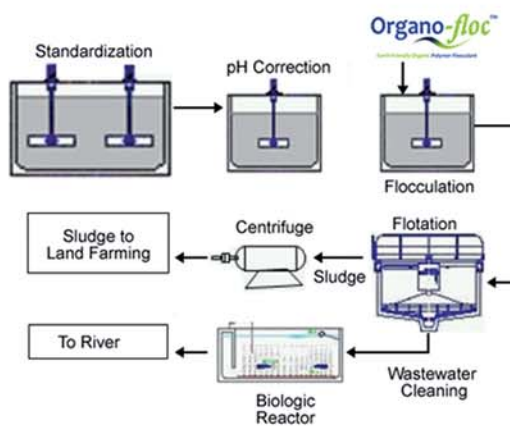
CASE STUDY WWT - DAIRY FACTORY

CHALLENGE/OPPORTUNITY

A dairy industry located in southern Brazil, which processes one million liters of milk a day for the production of UHT milk, cream, condensed milk, milk powder and chocolate milk, used to treat its effluent with an inorganic coagulant, resulting in high acidity, high levels of residual iron and a great quantity of sludge.

Seeking to improve the quality of the effluent produced as well as reducing acidity, residual iron levels and sludge generation, it was decided to test Organo-floc. The result was so encouraging that Organo-floc has been permanently adopted.

APPLICATION FLOWCHART



WASTEWATER CHARACTERISTICS

Flow	pH	COD
50 m ³ /h	11.5-12.5	2.120 mg/l

TREATMENT COMPARISSION

	Coagulant	
	Al ₂ (SO ₄) ₃	Organo-floc
Dosage	1500 ppm	350 ppm
Alcalizer agent	Lime	-----
Polymer	3 mg/l	2 mg/l
pH correction	-----	H ₂ SO ₄

EFFLUENT AFTERTREATMENT

TREATMENT	COD	Sludge (kg / month)
FeCl ₃	848 mg/l	250.000
Organo-floc™	530 mg/l	200.000



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BENEFITS DERIVING FROM THE APPLICATION OF ORGANO-FLOC

- 20% reduction of the volume of sludge produced;
- Output of organic sludge which may be used as organic fertilizer;
- Elimination of the use of lime;
- Treatment efficiency increase;
- Use of a biodegradable product eliminating possible interference with the biological treatment;
- Elimination of iron residue in the treated effluent and in the sludge;
- Rationalized manpower use.

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.