

INLINE Polyelectrolyte Dosing SYSTEM

Ways to improve operations and profitability

CASE STUDY

December 2014

When a PRIMIX Static mixer is used for dosing polyelectrolyte in waste water the amount of used polyelectrolyte can be reduced !

THE RESULT

- Optimal coagulation
- Less overdosing
- Reducing chemicals

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PERFORMANCE BY DESIGN

Background

To evacuate small particles from waste water it is necessary to coagulate these particles first, this is done by dosing polyelectrolyte which has a certain time that it is most active after dosing it in the waste water.

The Challenge

How to reduce the amount of polyelectrolyte without less coagulation

Design

Polyelectrolyte is a pre fabricated ferric chloride solution which is most reactive in the first phase after it is dosed to the waste water, during this time the polyelectrolyte can coagulate as much small particles as possible if contact with these particles is made.

Solution

Polyelectrolyte is dosed sideways in a static mixer that is designed in such a way that as much contact is generated between polyelectrolyte and small particles as possible and at the same time care is taken that polyelectrolyte coagulation is not destroyed but formed as much as possible



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