



OP-TI CLEAN Program

Optimised chemical use in tank cleaning industry



WVT INDUSTRIES



WVT 1
Total ground surface: 4.000 m²
Activities: Development & production,
Offices
WVT 2
Total ground surface : 5.000 m²
Activities : Filling, packaging & stock
WVT 3
Total ground surface : 5.000 m²
Activities : Stock & Spare capacity, offices



Challenges tank cleaning



- ▶ Strong variations in tank pollutants
- ▶ Reduced cleaning time and increased cleanliness results
- ▶ Compliance to legal limitations
- ▶ Norms waste water that become more and more stringent
- ▶ Balance between cleaning and waste water treatment

Why

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Clean

- ▶ **O**pen mindset towards tank cleaning chemicals and their impact on the wastewater treatment
- ▶ **T**ailor made solutions considering the cleaning protocols, environmental requirements and treatment installations on site
- ▶ **C**heck and control of the dosing concentrations of the cleaning chemicals



Product selection examples

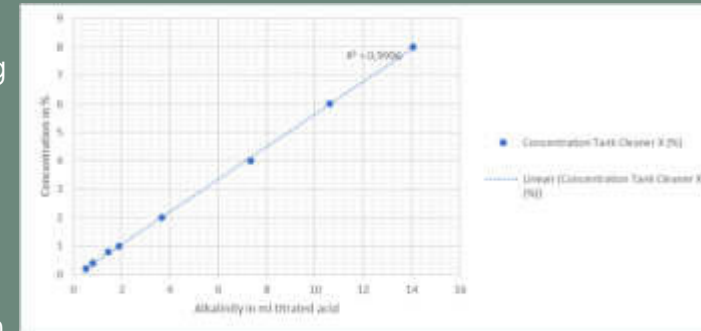


- ▶ Acid cleaning agent
 - ▶ Removal of white deposits after alkaline cleaning
 - ▶ P-free
 - ▶ N-free
 - ▶ Cl-free
- ▶ High concentrated alkaline cleaning agent
 - ▶ Reduced chemical consumption
 - ▶ Lower transport costs
 - ▶ Higher cleaning flexibility
- ▶ CLP-free solvent cleaner
 - ▶ Alternative for hazardous chemicals
 - ▶ No risk for operator health
 - ▶ High degreasing properties
- ▶ Organic coagulant
 - ▶ Improved removal of suspended solids
 - ▶ No neutralisation required
 - ▶ Reduced sludge formation



Control of product concentration

- ▶ Off-line product control:
 - ▶ Samples taken at each cleaning lane
 - ▶ Monitoring product distribution and active concentration
 - ▶ Control frequency on regular base
 - ▶ Optimised product consumption



- ▶ On-line measurement system:
 - ▶ Automised measurement of product concentration
 - ▶ Continuous control
 - ▶ As a control help or even as dosing control tool



Results

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Clean

- ▶ Better dosing control leads to optimum product consumption
- ▶ Improved understanding between product supplier and user
- ▶ More stable exploitation of the wastewater system
- ▶ Controlled discharge parameters
- ▶ Lower overshoots of discharge limits
- ▶ Lower total costs for exploitation



THANK YOU!



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