

CASE STUDY

Major Food Packaging Company Reduces Water Use and Treatment Costs While Improving Wastewater Treatment Efficiency with EZFloc™

Background

Operators at a Midwestern food packaging plant struggled with operational inconsistencies caused by clean-in-place (CIP) events in their wastewater system, which impacted dissolved air flotation (DAF) performance.

Along with extensive maintenance requirements for polymer make-down equipment, these issues were straining the facility's small workforce.

Seeking a more efficient and cost-effective polymer treatment program, they reached out to ChemTreat for help.



Solution

ChemTreat's technical team recommended replacing the traditional emulsion-based flocculant with EZFloc™, an oil-free, water-based polymer technology.

EZFloc can be fed neat, so it eliminated the need for day tanks and polymer make-down equipment, reducing maintenance requirements and significantly decreasing the treatment program's footprint. This also resulted in water and costs savings, as running water and electricity to operate the system was no longer required.

With a longer shelf life and lower freeze point than the previous treatment, EZFloc also helped reduce shipping frequency and concerns around product storage in cold temperatures.

Results

Transitioning to EZFloc treatment allowed the facility to meet their objectives without increasing product feed or sacrificing performance.

Other benefits included:

- **3.5M gallons in annual water savings.**
- **\$27k in annual water cost savings.**
- **\$7k in annual projected chemical cost savings.**
- **Maintained turbidity performance in the effluent.**
- **Reduced manhour requirements for maintenance.**

Results are examples only. They are not guaranteed. Actual results may vary.