

Customized **turnkey** solutions for laundry **wastewater** **treatment**

Alumichem offers unique turnkey wastewater treatment solutions for industrial laundries. Our solutions are designed, engineered, and will perform according to your discharge requirements.

Our wastewater treatment solutions have the following advantages:

- Comply with discharge limits
- Reuse of treated wastewater
- Reduce cost of operation
- Custom designed to fit your needs



Meeting your discharge requirements

The requirements for wastewater treatment and discharge are becoming stricter - both in Europe and globally. By partnering with Alumichem, you are guaranteed the system solutions comply with your current environmental legislations and you will receive peace of mind that they can be adapted for any future requirements.

Our services

Let us help you maximize performance and minimize risk by supporting you before, during and after start-up.

- Our experts guide you to the best solution
- Upgrade of existing facilities
- Installation and ongoing technical support
- Start-up and commissioning
- Operator training
- Chemical testing and optimization

Proven technology

Alumichem has a long history developing custom wastewater treatment solutions for our partners.



Contact us

Contact us to speak with our experts and learn how you can comply with water discharge limits and reduce your costs of operation.

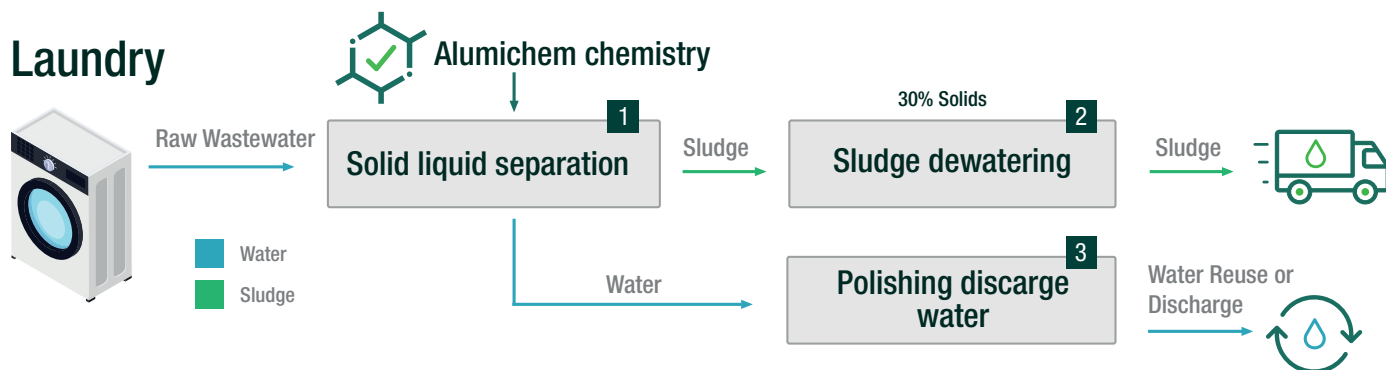


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1. Solid liquid separation

The initial step separates solids from liquids and takes the dry matter content up to 10% solids and significantly reduces the waste amount.

The process consists of two parts:

- Chemical conditioning of the sludge to build large flocs
- Mechanical filtration or other technology to separate these floc particles



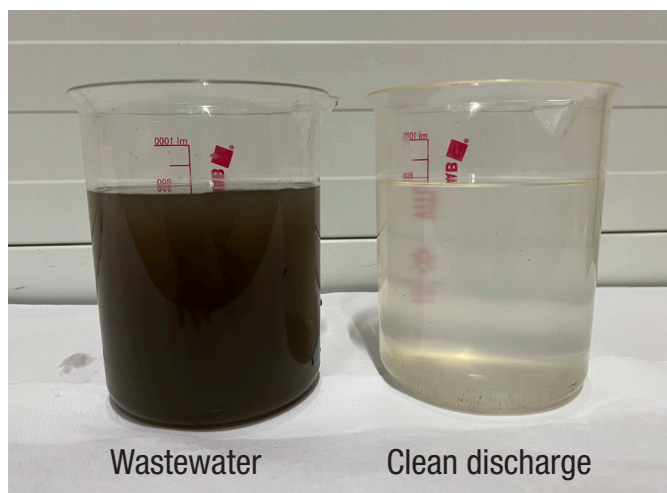
2. Sludge dewatering

The thickened sludge can be further dewatered in a dewatering step, in which the dry matter content can reach 30% solids and the sludge amount is further reduced for easy transportation.



3. Polishing of discharge water

The water from the solid liquid separation can be further treated for reuse or to ensure compliance with any environmental regulation. The water can be treated for any remaining solids, nitrogen, phosphorous, TOC, heavy metals etc.



Reuse of treated wastewater in the laundry process

The treated wastewater can be recycled back into the laundry process, significantly reducing fresh water consumption and operational costs. This sustainable approach not only helps in conserving water but also ensures lower operational costs.

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