

Chlor-Alkali



SAMCO

Separation from the ordinary

PROJECT BRIEF

Chlor-Alkali Industry Leader Upgrades System with ADI Technology for Extremely High-Quality Water and Zero Liquid Discharge

PROJECT OVERVIEW

At a leading chlor-alkali company in Nekoosa, Wisconsin, the client upgraded their technology to include SAMCO's Advance Amberpack™ deionization (ADI) system, the most advanced demineralization technology in the industry.

OBJECTIVE

Satisfy stringent chlor-alkali water purity standards while lowering client's operating cost, increasing their water quality, and decreasing the system footprint.

SCOPE OF SERVICE

The client worked with SAMCO to develop an effective solution that comprised detailed design, manufacturing, startup, commission, and ongoing technical support.

CHALLENGES

- Stringent industry regulations
- Fast-track project, concept to completion
- Strict project budget
- Minimal operator availability

SOLUTION

To bring the client into compliance with stringent chlor-alkali industry regulations, and deliver yields up to 99%, SAMCO engineered an innovative deionization solution with Advanced Amberpack™ technology. Developed in collaboration with The Dow Chemical Company (formerly Rohm and Haas), Advanced Amberpack™ is a revolutionary pre-engineered ion exchange system that combines the full capability of amberjet resins, and Amalgamated Research Inc.'s innovative patented fractal technology for the highest quality water while minimizing cost, space, and waste. Coupled with SAMCO's proprietary backwash tube filter technology, and cutting-edge design, fabrication, and project execution expertise, the client benefited from an extremely high-yield ion exchange solution that saved 35% in cost operation while providing <1 megohm high-quality water and zero liquid discharge (ZLD).

TECHNOLOGY

Project deliverables and equipment included:

- Advance Amberpack™ ADI
- Chemical feed
- Distribution pumps
- Neutralization
- Tube filter guard beds
- Process controls

OVERVIEW

Industry

Chlor-Alkali

Location

Nekoosa, WI

Objective

Purify client's water to meet stringent chlor-alkali industry standards

Solution

500 GPM Advance Amberpack™ ADI Backwash Tube Filter

Need help bringing your water to industry compliance standards? Is water purity an issue? Contact us today at SamcoTech.com • askengineers@samcotech.com • (716) 743 9000