

## Background

Bacterial contamination is a primary concern in the food processing industry. Sanitizing piping systems that process food-grade antimicrobials, like peracetic acid (PAA), are critical in poultry processing. If the sanitizing system is down due to piping issues, leaks or corrosion, the plant must shut down, ultimately delaying production. What if there was a corrosion-resistant solution to keep maintenance, shut-down time and labor cost down with easy installation options? A poultry processing plant in North Carolina learned there was a solution when they switched to Asahi/America's Chem Proline® piping system after experiencing problems with their existing piping system.



## Problem

A poultry processing plant in North Carolina that processes 400,000 chickens per day, installed a polypropylene piping system for their PAA sanitizing system; however, the piping system was not made for this application. This caused problems including the high material cost and labor of installation. Additionally, the system was limited in fittings and not UV resistant. Some poultry processing plants use PVC/CPVC cemented piping systems for PAA; however, leaking joints and long cure times can result in loss of production. Because of these issues, they decided to switch to Chem Proline®.

## Solution

Why Chem Proline®? Chem Proline® is designed for oxidative chemical applications. It eliminates leaking at cemented or threaded joints, and corroding-insulated metal pipes. Chem Proline® piping has butt and socket fusion weld joining method options. The flexibility of the pipe and quick butt fusion weld times reduced labor and coupling costs allowing the plant to install much more piping than they anticipated. Butt welding also prevented the plant from shutting down for long periods of time in order to install this critical system. The company plans to implement Chem Proline® as their new pipe standard for all 14 of their processing plants because it is cost effective, easier to install and UV resistant.

## Asahi Advantage

- Low-cost maintenance and installation
- Leak-free performance
- Butt or socket fusion joining methods
- Start-to-finish project assistance from specification, weld training and installation

## Chem Proline® Applications

- Sanitizing
- Chemical treatment (ammonia, chlorine, bromine)
- Waste treatment

## Other Asahi Pipe Offerings

Visit our website at [www.asahi-america.com](http://www.asahi-america.com) to view other piping systems options.



**Chem Proline®**  
by Asahi/America



**Chem Prolok®**  
by Asahi/America



## Chem Proline®

### Pipe and fittings

- 20 - 315mm (1/2" - 12") 150psi

### Valves

- Type-21 ball valves: 20 - 110mm (1/2" - 4")
- Type-57 butterfly valves: 50-315mm (1 - 1/2" - 12")
- Ball check valves: 20 - 110mm (1/2" - 4")
- Regulator valves, relief valves, guage guards

## Chem Prolok®

### Pipe and fittings

- 1" x 3" through 12" x 16" 150psi x 45psi (containment)

### Leak Detection

- Complete range of leak detection available

## Poly-Flo®

### Pipe and fittings

- 1" x 1-1/2", 2" x 3" and 4" x 6" 150psi x 45psi (containment)

### Leak Detection

- Manual and probe detection options available

### Welding Methods



### Welding Methods



### Welding Methods



## Chem Proline® Advanced PE Piping System

Chem Proline® is composed of the latest evolution in Advanced Polyethylene (PE) resin technology. This new Advanced PE material possesses excellent physical and mechanical properties. These properties include: stress crack resistance, slow crack growth resistance, ductility, impact resistance, abrasion resistance and brittle resistance.

Capable of handling some of the harshest chemical applications with an expected long-term life, Chem Proline® offers a greater value over metal, FRP, lined steel, or other thermoplastic piping systems like PVC and CPVC. Chem Proline's® superior properties make it the only polyolefin material able to handle certain chlorinated services like sodium hypochlorite. Chem Proline®, which is UV resistant and lightweight, is perfect for most corrosive chemicals.

**Another  
Corrosion  
Problem  
Solved.™**