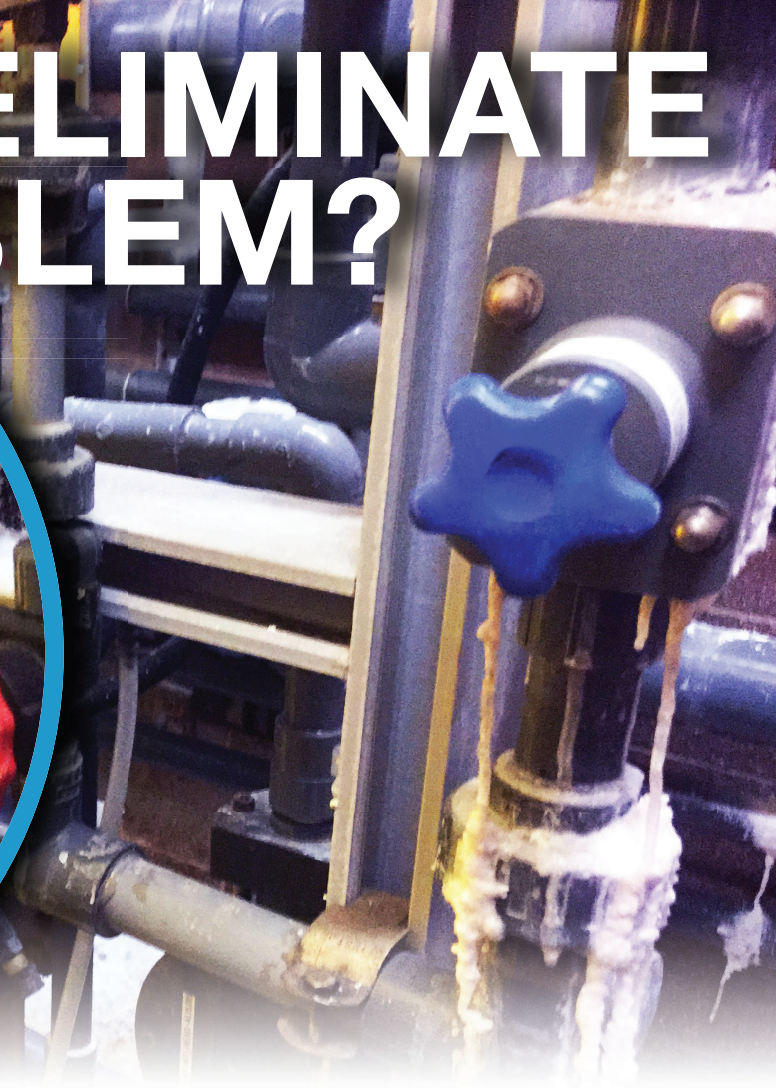


WANT TO ELIMINATE THIS PROBLEM?



PROBLEM SOLVED.



Chem Proline[®]
by Asahi/America



- ✓ Made of Advanced PE
- ✓ Corrosion, stress crack & UV resistant
- ✓ Perfect for most water treatment chemicals
- ✓ Socket & butt fusion pipe & fittings:
available in 1/2" - 12" (20 - 315mm)



Certified to
NSF/ANSI/CAN 61-G



Chem Proline® Advanced PE Piping System



Features and Benefits

- Advanced PE chemical compatibility
- Fused system eliminates cement and threads
- Saves time by installing directly in rough trenches
- Resistance to crack propagation
- Butt fittings and valve with butt end connectors are available
- Superior stress cracking and abrasion resistance
- High pressure load resistance of 150psi at 68°F
- Wide temperature range (-40°F to 140°F)
- High impact resistance and ductility

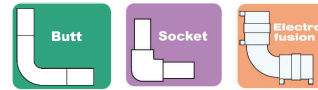
Pipe and Fittings

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

Valves

- Type-21 ball valves: 20 - 110mm (1/2" - 4")
- Type-57P butterfly valves: 50 - 315mm (1-1/2" - 12")
- Check valves: 20 - 315mm (1/2" - 12")
- Diaphragm valves: 20 - 255mm (1/2" - 10")
- Regulator valves, relief valves, gauge guards

Welding Methods



Chem Proline® Applications

- Water/wastewater treatment
- Caustic
- Chemical processing
- Acids

Advanced PE Chemical Resistance Chart

| Chemical Name | Chemical Symbol | Common Uses | Typical Concentrations/ Conditions | Advanced PE Pipe Resistance | Advanced PE Valve | Special Considerations |
|------------------------------|-----------------------------------|--|------------------------------------|-----------------------------|-------------------|------------------------|
| Aqueous Ammonia | NH ₄ OH | Biocide Chloramination | 19% | Resistant | PVC/EPDM | - |
| Sodium Hypochlorite (Bleach) | NaOCl | Biocide | Up to 25% | Resistant | PVC/FKM | Vented Ball Valves |
| Sodium Hydroxide (Caustic) | NaOH | pH Adjustment/ Corrosion Control | 50% | Resistant | PVC/EPDM | - |
| Chlorine Gas - in water | HClO | Biocide | < 3,500 ppm | Resistant | PVC/EPDM | - |
| Hydrochloric Acid | HCl | pH Adjustment | 37% | Resistant | PVC/FKM | Vented Ball Valves |
| Hydrofluosilicic Acid | H ₂ SiF ₈ | Fluoridation | 50% | Resistant | PVC/FKM | - |
| Peracetic Acid | CH ₃ CO ₃ H | Biocide | 12% | Resistant | PVC/FKM | - |
| Sulfuric Acid | H ₂ SO ₄ | Raw Water Treatment & pH Adjustment | Up to 85% | Resistant | PVC/FKM | - |

This data is for reference only. For specific application references, please contact Asahi/America's engineering department.

Chem Proline® Advanced PE Piping System

Chem Proline® is composed of the latest evolution in Advanced Polyethylene (PE) resin technology. 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.

