

Chem Proline® - Polyethylene



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

Capable of handling some of the harshest chemical applications with a long-term expected useful life, Chem Proline® offers a greater value over metal, FRP, lined steel, or other thermoplastic piping systems like PVC and C-PVC. Chem Proline's® superior properties make it the only polyolefin material able to handle certain chlorinated services like sodium hypochlorite. UV resistant, light weight, proven fusion joining technology, Chem Proline® is perfect for most chemicals found in the water treatment process.

Supply Range

Pipe and Fittings

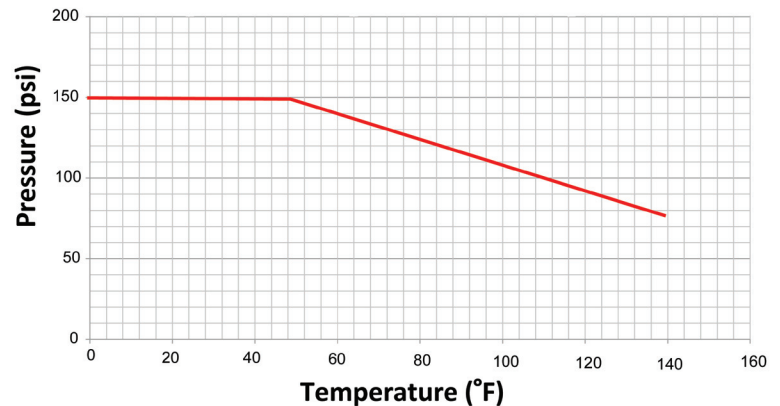
- 20 - 315mm (1/2" - 12") 150 psi

Valves

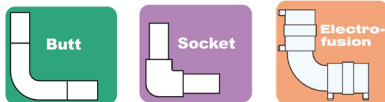
- Type-21 Ball Valves: 20 - 110mm (1/2" - 4")
- Type-57 Butterfly Valves: 50 - 315mm (1-1/2" - 12")
- Type-14 Diaphragm Valves: 20 - 250mm (1/2" - 10")
- Ball Check Valves: 20 - 110mm (1/2" - 4")
- Regulator Valves, Relief Valves, Calibration Columns, Gauge Guards



Pressure Rating



Welding Methods



Chem Proline® vs other Plastic & Metal Piping Systems

Chem Proline® by Asahi/America is manufactured under special license by AGRU of Austria. Chem Proline® is made from the latest polyethylene resins available, which provide the highest resistance to chemical attack.

Chem Proline® vs PE 4710

- Over 800 percent more resistant to chemical crack propagation
- 40 times more stress crack resistant
- Requires no special bedding in buried applications
- Able to withstand point loads

Chem Proline® vs FRP Pipe

- Better impact resistance
- Much shorter joint cure times

Chem Proline® vs Metal Pipe

- Fusion joints are the same as the pipe
- Non-metallic, no rust or corrosion

Chem Proline® vs PVC/C-PVC

- No glued or threaded joints
- Much lower brittleness temperature - more ductile
- Greatly reduced install time, short cure times needed

Chem Proline® Ideal Applications

- pH range 1-14
- Bleach
- Process Chemical & Waste
- Caustic
- Acids
- Industrial Water
- Horizontal Directional Drilling

