



Optimum Flow[™]

Antiscalant/Dispersant/Antifoulant

Membrane System Support Program

Pretreat Plus[™] 0100

Pretreat Plus[™] - 0100 is a highly effective antiscalant, specially formulated for feedwaters with the highest levels of metal oxides, silica, and scale-forming minerals. It is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants or iron or aluminum-rich silica. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. A special utility is in its application as a substitute for pretreatment with ion exchange beds.

Product Benefits:

- **Effective in retarding polymerization and precipitation of silica**
- **Effectively controls inorganic scales over a large concentration range.**
- **Certified under ANSI/NSF Standard 60 for drinking water production.**
- **Compatible with major manufacturer's RO, NF, and UF membranes.**
- **Does not flocculate dissolved iron/aluminum oxide/silica complexes.**
- **Effective in controlling calcium carbonate and calcium sulfate scales.**
- **Effective in feedwaters with pH range 5.0 – 10.0**
- **Efficacious for controlling aluminum, iron, and heavy metal salts.**

Specification: Liquid

Appearance: Clear, colorless
pH: 1.5 ± 0.8
Specific Gravity: 1.08 ± 0.05

Specification: Powder

Appearance: Colorless
pH (1% in water): 11 –12

Application:

Pretreat Plus[™] 0100 should be injected into the feedstream prior to the static mixer and cartridge filter. Effective pH range is 5 –10. If frozen, may be thawed and mixed before use. Stability is excellent, but best used within 12 months.

Dosing Recommendations:

In the useful dosage range of 1 –15 mg/L (neat), control of a wide range of inorganic scales at up to 100 x saturation values or higher is possible. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of scales including that from calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate, iron hydroxide, aluminum hydroxide and silica.

Packaging:

Standard and custom sizes, pails, drums, and totes.

*MSDS available upon request.