Optimum Flow™

Antiscalant/Dispersant/Antifoulant

Membrane System Support Program

Pretreat Plus™ Silica

Pretreat Plus™ - Silica is a highly effective antiscalant, specially formulated for feedwater 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. It inhibits polymerization of reactive silica, and disperses colloidal (non-reactive) silica.

Product Benefits:

- **Highly 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/silicate complexes.**
- **May be used diluted or undiluted.**
- **Effective in feedwaters with pH range 5.0 – 10.0**
- **Particularly efficacious for controlling coagulation of colloidal silica by 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™ Silica should be injected into the feed-stream prior to the static mixer and the 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 – 50 ppm, control of a wide range of inorganic scales along with reactive and non-reactive silica at high levels. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of silica gels and scales which form chemically linked foulants prone to flocculation with organic materials.

Packaging:

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

***MSDS available upon request.**

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