

Pretreat Plus[®] Y2K

Antiscalant/Dispersant/Antifoulant

Pretreat Plus[®] Y2K is a powerful antiscalant that is specially formulated for controlling calcium carbonate scale in feedwaters with high levels of metal oxides, silica, and scaling-forming minerals. Pretreat Plus[®]-Y2K can be used to potentially eliminate the need for acid injection into RO feedwater. This will reduce or avoid the frequent practice of continuous injection of concentrated sulfuric or hydrochloric acids and their associated handling and corrosion hazards. It is effective over a wide range of concentrations and does not flocculate dissolved polymers such as residual coagulants and iron or aluminum silicates. It inhibits copolymerization of reactive silica with calcium, aluminum, and ferric hydroxides. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems.

Product Features:

1. Effectively controls:
 - polymerization and precipitation of silica and silicate gels.
 - inorganic scale over a large concentration range.
 - calcium carbonate scale
 - precipitation of aluminum, iron, and heavy metal salts.
2. Permits the elimination of acid injection into RO feedwaters.
3. Compatible with RO, NF, and UF membranes from all major manufacturers.
4. Certified under ANSI/NSF Standard 60 for drinking water production.
5. Effective in feedwaters with pH range 4.0–10.0
6. Does not flocculate organic polymers and colloidal silicate complexes.

SPECIFICATIONS	
Appearance:	Clear, Colorless Liquid
pH:	Approx 1.5
Specific Gravity:	1.09 ± 0.05

Dosing Recommendations:

In the dosage range of 1-50 ppm (neat), control of a wide range of inorganic scales at high levels is possible. By monitoring normalization charts, an optimal dosage could be found empirically for the control of calcium carbonate scale and metal hydroxide or silica gels which may be prone to flocculation with organic polymers.

Application:

Pretreat Plus[®] Y2K should be injected into the feed-stream prior to the static mixer and cartridge filter. Effective pH range is 4–10. If frozen, may be thawed and mixed before use. Best used within 12 months.

Packaging:

Liquid: 5 gal, 55 gal, 275 gal

**SDS available upon request at klt@kingleetechnology.com*

