

PROTEC RO™ C

Antiscalant/Dispersant/Antifoulant

Protec RO™ C is a highly effective antifoulant and anticoagulant for all membrane systems treating feedwaters with the highest potential for fouling by silt, organics, colloids and fine particulates. It is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants, iron or aluminum-rich silica. A special utility of Protec RO™ C is in its application as an anti-deposition agent for colloidal matter in sea and brackish surface waters, and industrial and municipal wastewaters. It prevents the coagulation and subsequent membrane fouling by colloidal organic matter which includes mucic acid, lignin, tannin, microorganisms, polysaccharides, lipids, proteins, cellular debris and organic polymers from water treatment and inorganic colloids including silica, clay, silt, sulfur and various microcrystalline precipitates.

Product Benefits:

- Inhibits coagulation and deposition of organic and inorganic colloidal particles.
- Certified under ANSI/NSF Standard 60 for drinking water production.
- Compatible with major manufacturers' RO, NF, and UF membranes.
- Reduces requirements for membrane cleaning by decreasing the rate of membrane fouling.
- Effectively reduces membrane fouling when processing waters with high SDI values.
- Eliminates the need for additional expensive pretreatment equipment and chemicals to control feedwaters with high SDI values.
- Compatible with simultaneous administration of antiscalant into feedwater.

| SPECIFICATIONS | |
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| Appearance: | Amber clear liquid |
| pH: | 7-9 |
| Specific Gravity: | 1.02 ± 0.15 |

| SPECIFICATIONS | |
|----------------|--------------------|
| Appearance: | Tan colored powder |
| pH: (1% water) | Approx. 7 |

Application:

Protec RO™ C should be injected into the feed-stream prior to the static mixer and cartridge filter. Effective pH range is 2–14. 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 1–100 ppm neat (liquid), and 0.3–33ppm (powder), the liquid being 33% w/w of the powder in water. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of colloidal particles in feedwaters of microbial, plant or inorganic origins, and organic compounds in industrial process or waste streams.

Packaging:

Standard pails, drums, and totes for liquid. Powder cleaners come in 2 lbs, 4 lbs, 25 lbs, and 45 lbs.

*SDS available upon request at klt@kingleetech.com

