



OptiClean™ F is an aggressive high pH (alkaline) powdered cleaner combining select dispersants and builders effective on a wide range of foulants. Formulated to target organic, microbiological, particulate and other acid insoluble foulants, OptiClean™ F helps optimize membrane filtration module cleanings. Ideal for municipal reuse, surface water, and other high loading applications.

Features / Benefits

- Readily dissolvable powdered cleaner provides efficient shipping and handling
- Buffered pH to maintain optimum cleaning performance
- Superior cleaning results compared to generic chemistries

Uses

- For use on reverse osmosis (RO), nanofiltration (NF), ultrafiltration (UF), and micro-filtration (MF) membranes
- Daily regimen for aggressive applications
- To aid in the removal of organic, biological, and colloidal material

Specifications

| | |
|------------------|--------------|
| Appearance | White powder |
| pH (1% solution) | 12.0 - 12.5 |

Packaging

Pail: 25 lbs/ 11.36 kg

Pail: 45 lbs/ 20.45 kg

For special packaging options, please contact PWT or your local distributor.

OptiClean™ F
POWDER MEMBRANE CLEANER

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General Mixing & Application Instructions for OptiClean™ F

1. For optimum performance, fill the cleaning tank with RO permeate or demineralized water. If neither of these sources is available, softened water may be used. The volume of water required for cleaning is typically equal to the hold-up volume of the system.
2. Heat the water to the maximum temperature permitted by the MF/UF module manufacturer, typically around 104°F (40°C)
3. Add OptiClean™ F to the tank at 1 lb per 12 gallons dilution water. Thoroughly dissolve the cleaner. The expected pH is 12.0-12.5 at 25°C
4. Recirculate the solution as per the MF/UF module manufacturer recommended procedures
5. Flush the system with MF/UF filtrate.

Static soaking heavily fouled membranes is recommended. After soaking recirculate again for a minimum of 30 minutes. Rinse systems prior to system start-up.

NOTE: Due to variability in RO/MF/UF system configurations, consult your membrane supplier for specific cleaning instructions. This product is compatible with most RO/MF/UF systems.

ProDose XPRT™ – Scaling Prediction Software

ProDose XPRT™ uses the most accurate scaling prediction calculations available to accurately determine effective antiscalant dosage, and cleaning chemical usage. The user can enter multiple cases to study various operating conditions, directly enter concentrate analysis, and select the best PWT product and dosage for the application.

ProDose XPRT™ is available upon request only. Please contact your PWT representative for more information.

The screenshot displays the PWT ProDose software interface. At the top, there is a navigation bar with the PWT logo and several tabs: UNITS (US), TEMPERATURE (Fahrenheit), PERMEATE FLOW (81.00), RECOVERY (75.0%), ANTISCALANT (SpectroGuard Liquid), DOSAGE (2.95 PPM), SOURCE (Well Water), PROJECT NAME (Project 1), and CASE (1). Below this, a sidebar on the left contains icons for PROJECT INFORMATION, WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT. The main content area is divided into several sections: OVERVIEW (with fields for CLIENT NAME, PROJECT NAME, LOCATION, PREPARED BY, DATE, and WATER TYPE), MEASUREMENTS (with preset units, temperature, flow rates, and mass units), COMMENTS (OPTIONAL), and TOTAL CASES (1 AVAILABLE). The TOTAL CASES section includes a table with columns for Cases and Modified Date, and a field for Selected Case Description.

| Cases | Modified Date |
|-------|---------------|
| 1 | 5/27/2016 |