

OptiClean™ S

POWDER MEMBRANE CLEANER

OptiClean™ S is a low pH cleaner developed specifically for the removal of silica fouling/scaling. The targeted formulation of OptiClean™ S re-dissolves stubborn silica scaling to minimize downtime and lost production due to decreased membrane performance. Used in a program that includes an alkaline cleaner for removal of colloids and organics, this highly efficient product provides excellent foulant removal resulting in longer system run times and increased membrane life expectancy.

Benefits

- Readily dissolvable powdered cleaner provides efficient shipping and handling
- Phosphate-free formula to reduce negative impact on the environment
- Buffered pH to maintain optimum cleaning performance throughout cleaning cycle
- Best results when used in a program that includes either OptiClean™ B or Lavasol™ 2

Uses

- For use on reverse osmosis (RO), nanofiltration (NF), ultrafiltration (UF), and micro-filtration (MF) membranes
- Removal of silica precipitation

Specifications

Appearance	White powder
pH (1% solution)	3.5 – 4.5
Density (kg/liter) 1% solution	1.08 – 1.10

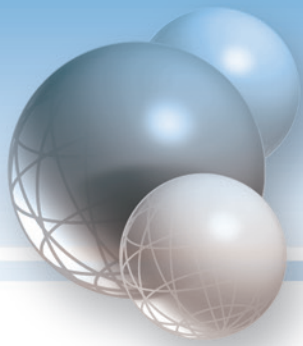
Packaging

Pail: 25 pounds/11.36 kg

Pail: 50 pounds/22.72 kg

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





OptiClean™ S

POWDER MEMBRANE CLEANER

General Mixing & Application Instructions for OptiClean™ S

1. Inspect all cleaning system components to include CIP tank, hoses, and cartridge filters. Flush or replace if necessary. Fill cleaning tank with RO permeate or DI water. Turn on agitator or tank recirculation pump.
2. Slowly add OptiClean™ to cleaning tank (1 pound [0.45 kg] of OptiClean™ for every 12 gal [45 L]) of water and mix thoroughly. The solution pH should match product specification. If necessary, adjust pH with a membrane-approved chemical such as caustic, citric, sulfuric, or hydrochloric acid. The solution should be heated up to 45°C to improve cleaning efficacy.
3. Circulate solution in the same direction as the feed flow. Typical circulation times are 30-90 minutes.* PWT recommends cleaning each stage of the system separately. Maximum flow rate per pressure vessel is 40 gpm (152 Lpm) for 8-inch elements and 10 gpm (38 Lpm) for 4-inch elements. Maximum pressure for cleaning is 60 psig (4.2 kg/cm²).
4. In cases of heavy fouling, divert the first 10-20% of cleaning solution to drain to prevent re-deposition of removed solids.
5. Rinse with RO permeate before returning system to service. When returning unit to service, divert product water to drain until any residual cleaning solution has been rinsed from system.

*Depending on the nature of the fouling, a soak period may be necessary for optimum results. Please contact PWT or your local distributor for custom cleaning procedure, or consult PWT's Technical Bulletin 503 for further cleaning recommendations.

Company Overview

Founded in 1996, Professional Water Technologies™ develops industry leading products and services for maintaining and operating industrial, commercial, and municipal reverse osmosis and MF/UF systems. With efficiency and high performance behind everything we do, Professional Water Technologies™ solutions surpass our client's expectations by maximizing the operating efficiency, economy, and longevity of their systems. Solutions include super-concentrated phosphate-free antiscalants, membrane cleaners, membrane forensics services, and more.

