



Lavazol™ 7 is an aggressive high pH (alkaline) low foaming cleaner formulated to remove silt, clay, particulate, biological, organic and other acid insoluble foulants. The most aggressive high pH cleaner in the Lavazol line, Lavazol™ 7 is ideal for high organic and biological feed streams such as surface and municipal water. Formulated with select strong chelants, solubilizing and dispersing agents, Lavazol™ 7 provides highly effective cleaning of heavily fouled membranes.

Features / Benefits

- Low foaming formulation reduces foaming tendencies in CIP tank
- Effective on a wide range of foulants
- Compatible with all polyamide RO and NF membranes
- Can be used on most MF and UF membranes
- Liquid cleaner easily diluted to application strength
- Classified for use in membrane systems producing drinking water (ANSI/NSF Standard 60)

Uses

- For use on reverse osmosis (RO), nanofiltration (NF), ultrafiltration (UF) and micro-filtration (MF) membranes
- Effective in removing biological slime and bacterial byproducts
- Very effective in dissolving organic materials, oils and greases

Specifications

Appearance	Clear liquid
pH (2% solution)	12.50 - 13.20
Density (kg/liter)	1.20 - 1.30



Packaging

Pail: 5 gallon/18.9 liter

Tote: 275 gallon/1,040 liter

Drum: 55 gallon/208 liter

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

Lavazol™ 7
LIQUID MEMBRANE CLEANER

Lavasol™

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General Mixing & Application Instructions for Lavasol™ 7

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 Lavasol™ to cleaning tank (1 gal [3.8 L] of Lavasol™ for every 50 gal [189 L] of water). 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.

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 various parameters: UNITS (US), TEMPERATURE (Fahrenheit, 81.00), PERMEATE FLOW (81.00), RECOVERY (75.0%), ANTISCALANT (SpectraGuard Liquid), DOSAGE (2.95 PPM), SOURCE (Well Water), PROJECT NAME (Project 1), and CASE (1). Below this, the interface is divided into several sections:

- PROJECT INFORMATION:** A sidebar menu with options like WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT.
- OVERVIEW:** Fields for CLIENT NAME (City of San Diego), PROJECT NAME (Project 1), LOCATION, PREPARED BY, DATE (5/1/2016), and WATER TYPE (Well Water).
- MEASUREMENTS:** Preset units (CGS, Metric, U.S.), Temperature (Deg F), Flow Rates (Gal/min), and Mass Units (lb). An 'Enter' button is present.
- COMMENTS (OPTIONAL):** A large text area for user comments.
- TOTAL CASES (1 AVAILABLE):** A table with columns for 'Cases' and 'Modified Date'. One case is listed with ID '1' and date '5/27/2016'. Below the table is a 'Selected Case Description' field.



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