

# ScaleShield High Ph Cleaner

## Membrane Cleaner

**ScaleShield High Ph Cleaner** is a heavy duty action high pH liquid cleaner that quickly and easily mixes with water to make an easy to use cleaning solution that effectively removes a wide range of organic particulates such as silt, colloids, organics, biogrowth, and other acid-insolubles from reverse osmosis (RO) and nanofiltration (NF) membrane elements. The unique formulation helps eliminate the need for hydrogen peroxide, formaldehyde, and other membrane disinfectants as a post or pretreatment to membrane cleaning. Use alongside ScaleShield LpH Cleaner for a comprehensive cleaning.

## Features

- Removes organics and particulates.
- Heavy-duty action broad-spectrum cleaning.
- Removes silt, colloids, organics, bio-growth, and other alkali soluble foulants.
- Liquid formulation for ease and safety of mixing.
- Compatible with RO, NF, and UF membranes from all major manufacturers.
- Certified under NSF/ANSI Standard 60 for drinking water production.



### Dilution Ratio

Perform a thorough low-pressure system flush. Prepare each cleaning solution as a 1:40 mixing ratio of neat cleaner to final prepared cleaning solution by filling the CIP tank with the appropriate volume of permeate or DI water, then adding chemical while mixing or circulating in the tank. If the system is undrained post-flush, assume approximately 4 gal of water remains in each 8"x40" membrane element (1 gal per each 4"x40"). Rinse completely after each cleaner.



### Specs

Appearance:	Product pH (1%):
Colorless to Light Brown Liquid	11.0 ± 0.9

## Application

Clean when the train's normalized productivity has decreased 15% from clean operation. Soak and circulation times will vary based on membrane condition. Monitor and maintain recommended pH throughout cleaning by adding neat chemical, if necessary. Document each step with results to empirically fine-tune your procedure.

