

# Diamite™ Silica

## Targeted Liquid Membrane Cleaners

The Diamite Silica restores and maintains optimum performance of reverse osmosis, nanofiltration, microfiltration, and ultrafiltration systems.

Product	Ideal For	Membrane	Mixing Ratio	pH
Diamite™ Silica	Inorganic scale, aluminum, iron and other metal silicates, reactive and colloidal silicate fouling, coagulated polymers and silicates.	Thin Film Composite, Cellulose Acetate, & Polysulfone	1 gallon to 40 gallons of water.	4

### Diamite™ Silica

*Diamite™ Silica removes aluminum, iron, and other metal silicates, including reactive and colloidal silicate foulants and coagulated polymers. Compatible with thin film composite, cellulose acetate and polysulfone membranes.*

\*SDS available at [kingleetechnology.com](http://kingleetechnology.com)

### Packaging:

Liquid: 5 gal, 55 gal

### CLEANING GUIDELINES

1. Clean each RO train when its normalized productivity has decreased by 15% from clean operation.
2. Prepare each cleaning solution using 1:40 mixing ratio of chemical to permeate or DI water. For safety, insert the water into the tank first, followed by the chemical. If the system is not drained before cleaning, assume that approximately 4 gallons of water is present in each 8"x40" membrane element and 1 gallon of water is present in each 4"x40" membrane element after a thorough system flush.
3. Recirculate solution continuously at 30-40 GPM per 8" pressure vessel, or 7-10 GPM per 4" pressure vessel. Pressure should not exceed 60 psi, and permeate production should be minimized.
4. Soak and circulation times will vary based on the condition of the membranes. Monitoring pH during cleaning and documenting results for each step will help empirically fine-tune your procedure.
5. To improve cleaning effectiveness, you may heat the cleaning solution to approximately 95°F. Do not exceed 110°F or the equipment manufacturer's operational temperature limit.
6. Discard the used solution and rinse the system thoroughly after each cycle.

