

Product group: 659      Product number: 777718

NALFLEET™ RO Alkaline Cleaner™ is an effective alkaline based membrane cleaner developed to support the cleaning of acid in soluble sulfates of calcium, barium and strontium as well as calcium fluoride.



### Product information

This product supersedes product no: PERMACLEAN, PC-33

NALFLEET™ RO Alkaline Cleaner is also effective in removing iron oxides and hydroxides as well as calcium carbonate, though RO Mild Acid Cleaner is preferred for these foulants. NALFLEET™ RO Alkaline Cleaner is highly effective when used in combination with high pH detergent cleaners such as NALFLEET™ RO Surfactant Cleaner to help remove organic substances and microbial slimes.

During normal operation, RO membranes can become fouled, which greatly reduces the efficiency of the system. Deposits build up on the membrane until they cause a reduction in permeate flow and loss in salt rejection. The effects of fouling can lead to poor water quality, loss in production, unscheduled downtime and membrane replacement. A regular maintenance and cleaning program can provide return on investment (ROI) results ranging from 100 to 250 % by maintaining low pump output pressures and extending the membrane's life.

Elements should be cleaned whenever the normalized permeate flow rate or salt rejection decreases by 10-15 % or the differential pressure increases by 10-15 % from the original baseline data.

#### Features

- Mild alkaline formulation
- Compatible with wide range of RO membranes
- Liquid formulation for ease of application

#### Benefits

- Helps to maintain RO performance
- Extends lifespan of membranes
- Aids in the production of high quality feedwater and portable water on board vessels

### Specification

#### General

Invent Hazard Material (IMO/EU) classification	C-49
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#### Physical properties

Appearance	colorless to light yellow
Density [g/ml]	1.01 to 1.04
Form	Liquid
Freezing Point [°C]	12
pH	11 - 12.5

#### Technical data

Not Compatible	Neat product not compatible with brass and phenolic coated steel drums.
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### Documents

[SDoC and MD for IHM](#)

[RO Product Flyer](#)

### Directions for use

NALFLEET™ RO Alkaline Cleaner should be fed via a closed feed system. A closed feed system is defined as a system in which fluid is moved from a closed storage vessel into a treated media without exposure to the atmosphere except through normal venting or pressure relief devices.

Cleaning solutions should be made up with chlorine-free water to give a 2.0 - 2.5 % solution of NALFLEET™ Alkaline Cleaner. It is sometimes possible to monitor the progress of membrane cleaning by the "pick-up" of hardness salts in the cleaning solution.

**\*\* Storage Instructions:** RO alkaline Cleaner should be stored at temperature above 15 °C. Below 15 °C the product can form precipitation.

### Related products

#### Accessories

737189  
CHEM. CLEAN. UNIT W/HEATING, COATED

#### Consumables

778419  
POTABLE WATER TEST KIT  
768129  
MD100 POOLCONTROL 6IN1

Is frequently bought together with

777852  
RO.BISULPHITE 25 LTR LIQUID 38-40%

765018  
ENVIROCLEAN 25 LTR

571711  
GAMAZYME 700FN 12KG

777715  
RO MLD ACID CLEANER 25 LTR

777716  
RO SCALE CONTROL 25 LTR

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