



PERMACLEAN[®] PC-33

RO MEMBRANE CLEANING COMPOUND.

LENNTECH
WATER TREATMENT SOLUTIONS

Benefits

Has been approved by NSF for potable treatment applications.
Compatible with all types of membranes based on polyamide chemistries.
Improves system efficiency by reducing differential pressures and increasing permeate flow rates.
Effective membrane cleaner and designed to remove iron fouling and carbonate scale.
Reduces fouling which can result in poor permeate quality, unscheduled down time and loss in production and membrane replacement.
Effective membrane cleaner and designed to remove scales that are insoluble in acid such as sulphates and calcium fluoride.

Uses

PermaClean PC-33 is designed for use in RO systems as cleaning compound.

Description

PermaClean PC-33 is based on organic chelants and surfactants.

Dosage

Your Nalco representative will recommend the optimum dosage necessary to ensure maximum program performance according to your specific system conditions.

The cleaning time depend on the amount of fouling in the system.

PermaClean PC-33 should always be used as recommended by the membrane manufacturer in respect to cleaning pH and temperature.

Feeding

PermaClean PC-33 should be fed via a closed system.

A closed 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.

Before returning the system to service, the operator must ensure that any residual cleaning product is removed from the membrane surfaces by thorough flushing.

Materials

Storage and application equipment (pumps and lines) should be made of PVC, PE , Teflon or Stainless Steel.

Do not use Aluminum, Brass or Carbon steel in contact with the neat product.

Handling

As a standard precaution with all chemicals we recommend the use of protective equipment such as goggles and rubber gloves when handling chemical products.

Consult the Material Safety Data Sheet as the only official source of Environmental and Safety information.

The product can be stored at least 12 months from date of shipping if kept in it's original, unopened container and under normal warehouse conditions.

Protect from freezing and from exposure to high temperatures.

Remarks

PermaClean PC-33 is available in non-returnable containers and PORTA-FEED's of different sizes.

If you need more information on this product, please call your nearest Nalco representative.

Additional Info

PermaClean and PORTA-FEED are registered trademarks of Nalco Company

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