Dim Water Solutions
Environmentally Sustainable Solutions
dimasa grupo

Alkaline Cleaner Dim-ALC42

Chemical to clean reverse Osmosis Membranes (RO)

In normal operation, the reverse osmosis membrane **becomes dirty due to suspended solids, microorganisms, incrustations of inorganic salts and metals.** These deposits accumulate during operation and **cause loss of osmotized water production.**

Periodic cleaning of the membrane elements **minimizes the loss of performance and prolongs the life of the membranes.** The alkaline cleaner Dim-ALC42 has been developed as a general purpose cleaner for organic deposits and deposits commonly found in Reverse Osmosis and Nanofiltration membrane systems.

Reasons to use it

In general, the cleaning of the membranes is necessary when observing any of the following situations, which have been **due to fouling or embedding** of the membranes:

- The osmotized water flow rate drops by 10% with respect to the flow established from the first 24 working hours (normal flow of production).
- Permeated water (osmotized) increases its conductivity (salt content) by 10%, compared to its normal conductivity, which will always be less than 10 microsiemens.
- The pressure drop of water from the entrance to the exit of the osmosis increases by 10% (loss of pressure at the outlet of the membranes).

General Properties

Effective against a wide range of organic deposits.

Liquid product, easy to use.

Effective against deposits of colloidal silica and clays.

Compatible with all types of membranes and with carbon steels.

Toxicity and Manipulation

Read the safety data sheet carefully before handling the product, paying special attention to the protection of the skin and eyes.

Technical Characteristics

Amber liquid product clear and miscible with water in any proportion.

pH = 13'20. / Density: 1,20 gr/ cc.

General Cleaning Procedure

Dim-ALC42 is **highly effective** when used in 2-3% solutions and alternates recirculation periods and soaking periods for 1-2 hours at the maximum pH allowed by the membrane manufacturer. Alternate periods of recirculation and soaking of the membranes with the cleaning solution for at least 4-6 hours.

The operation with high temperatures will improve the efficiency of the cleanings. After each cleaning, the membranes should be rinsed with plenty of water until the pH in the feed and pour (rejection) are equalized.

Cleaning solutions containing Dim-ALC42 present a tendency to form foams. Dim-ALC42 is an aqueous mixture of cleaners, including a surfactant, a biodegradable chelant and inorganic phosphates. It is compatible with carbon steels and the usual construction materials.

Storage

Dim-ALC42 must be stored at a temperature higher than 5°C, because below that temperature can precipitate some of its components. These precipitates will disappear when heating the solution.

Presentation

It comes in **drums of 25, 200 or 1000 liters.**
The maximum recommended storage period is 2 years.