

Technical Data Sheet (TDS)

ASA-R 510



Chemical Product

Product Name: ASA-R 510

Use: Alkaline Cleaner for RO Membrane

Introduction

ASA-R 510 is a high pH membrane cleaner liquid that developed to support the cleaning of acid-insoluble sulfates of calcium, barium and strontium as well as calcium fluoride and other similar scales from RO and NF membranes. It is also effective in removing iron oxides and hydroxides as well as calcium carbonate. ASA-R 510 is highly effective when used in combination with high pH detergent cleaners such as ASA-R 510 to help remove organic substances and microbial slimes.

Advantages:

- Efficiently removes organic fouling, biofilm, oils, and grease from membrane surfaces.
- Helps restore membrane performance by improving water flux and salt rejection rates.
- Reduces microbial growth and prevents biofouling during normal RO operation.
- Compatible with most polyamide and thin-film composite membranes.
- Enables extended membrane life and reduced frequency of replacement.
- Works effectively in combination with acidic cleaners for complete two-stage membrane cleaning protocols.
- Low foaming and easy to rinse, ensuring safe and thorough cleaning without leaving residue.

Dosages:

The ASA-R 510 is highly effective when used as a 2-3% (by weight) solution with chlorine-free product water. The duration of the cleaning process depends upon the amount and nature of the fouling to be removed. It should be fed via a closed feed system.

Typical Properties

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|--------------------|---|--------------------------------------|
| ➤ Appearance | : | Light yellow liquid |
| ➤ Specific Gravity | : | 1.15-1.25 |
| ➤ Solubility | : | soluble in all proportions of water. |
| ➤ pH (10%) | : | >12 |

PACKAGING

ASA-R 510 is supplied in P.E drums of 200 kg capacity.

Storage

Keep cool, dry ventilated storage and clean containers.

Shelf Life

Two years in closed drums stored under cover and protected from extremes of temperature.

Performance monitoring

The performance of ASA-R 510 is monitored based on changes in the differential pressure of the RO system after cleaning.

Address: Unit 1 South ,No 358, North Mofateh Ave, Tehran, Iran.

 Tel: (+98)21 88 75 08 68

 URL: www.ASAChem.ir

 E-Mail: info@ASAChem.ir