



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-33-3302-025

Antiscalant RO

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Antiscalant RO is a high-performance scale inhibitor specifically designed for reverse osmosis (RO) systems. Scientifically formulated to protect and maintain RO membranes, it also serves as an effective cleaner for water softener resins and can be used as a preventative treatment to prolong system life and efficiency. Compatible with the polyamide and cellulose acetate RO membranes of the leading manufacturers.

This versatile formulation is particularly effective in systems prone to scale formation and iron fouling. In both RO and water softening applications, **RXSOL-33-3302** delivers reliable performance, helping to maintain optimal flow rates and water quality. **Highly effective for alkaline RO permeate, or where water to be treated is alkaline.**

Traditionally, scale buildup and iron deposits on RO membranes have led to reduced permeate output, declining water quality, unexpected system downtime, and higher operating costs—ultimately resulting in early membrane replacement. **RXSOL-33-3302** addresses these challenges with a powerful phosphonate-based chemistry that solubilizes iron contamination within sodium ion exchange resin beds. Extremely helpful for antiscaling against:

Calcium Carbonate:	CaCO ₃
Calcium Sulfate:	CaSO ₄
Barium Sulfate:	BaSO ₄
Strontium Sulfate:	SrSO ₄
Calcium Fluoride:	CaF ₂
Sodium Fluoride	NaF
Iron	Fe

Application and Dosage

Should be continuously dosed into the feedwater upstream of the membrane system, typically at a rate of **3-6 mg/L**, depending on the feedwater quality and specific system conditions. Our technical consultants are available to recommend the optimal dosage tailored to your system's requirements.

For best results, it is advisable to operate the dosing pump at the **highest possible frequency**, adjusting the **stroke length** to fine-tune the dosing rate and ensure consistent membrane protection.

An additional benefit of **RXSOL-33-3302** is its compatibility with **RO permeate for dilution**, with fresh solutions recommended every **3-5 days** to maintain efficacy.

When used in ion exchange softener resin beds, the recommended dosage is **1/3 litre per 25 kg of salt** added to the brine tank.

Technical Properties

Form	Liquid
Colour	Clear
Odour	Slight
pH	3.0 – 6.0
Relative density	1.20
Water solubility	Miscible in water

Key Features

- **Advanced scale inhibitor** engineered for use in reverse osmosis (RO) membrane systems
- **Ideal for SWRO (Seawater Reverse Osmosis)** applications
- Functions as a **highly effective resin cleaner** and **preventative treatment** for water softeners
- Provides **exceptional protection** against a wide range of common scalants
- **Stabilizes supersaturated salt solutions**, minimizing the risk of crystallization
- **Prevents scale deposition** on RO membrane surfaces
- **Effectively solubilizes iron fouling** in sodium-based ion exchange resin beds
- Offers **enhanced operational efficiency and cost savings**
- **Reduces feed water consumption** and chemical usage
- **Minimizes concentrate volume**, lowering disposal requirements
- **Environmentally responsible**, with low toxicity and no known harmful environmental impact
- **Improves sustainability** of system discharge with better acceptance for marine and industrial applications

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