World class Water Treatment Capabilities for industries

Product Bulletin

Product name	ROJEN R-27
Group	Chemicals
Application	Reverse Osmosis systems
Primary Function	Scale inhibitor

1.0- Introduction

Rojen R-27 antiscalant is a highly effective scale control agent designed for use with reverse osmosis systems.

This product is specifically targets scale deposition of many common compounds including calcium carbonate, calcium sulphate, barium sulphate, calcium fluoride. It also disperses colloidal silica that is present in some feed waters.

Rojen R-27 is compatible with all commonly used RO membranes, and the components of this product are approved by all major membrane manufacturers.

Other primary features include:

-The most effective product when high concentrations of calcium hardness are present
-Functions over all normally encountered pH ranges
-Functions over all temperature ranges used for RO plants

2.0- Typical Properties

Appearance:	Clear to pale yellow liquid
Specific gravity:	1.01 – 1.20
pH (neat)	1 - 3
Freeze point:	0°C
Viscosity @ 20°C	50 cps

3.0- Handling & Safety

Rojen Chemicals maintain a database of material safety data sheets (MSDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel

4.0- Packaging

Available in 30 kg pails.

5.0- Primary Application

The application rates of Rojen R-27 will vary based on the incoming water quality, operating pressure of the RO plant and condition and age of the membranes. Normal feed rates are between 3.0 and 8.0 mg/L of feedwater. Your Rojen chemicals technical field representative will determine the correct feed rate for your specific conditions.

6.0- Feeding & Control

Rojen R-27 should be added using a chemical metering pump with liquid end constructed of suitable materials. These include PVC, polypropylene, viton, Teflon and stainless steel.

Recommended injection point is after prefilter, upstream of feedwater pressure pump.