

DESCRIPTION

AMEROYAL RO is a high-performance, liquid antiscalant for controlling the deposition of inorganic scale forming salts and particulate foulants on membranes in reverse osmosis systems.

AMEROYAL RO exhibits excellent performance in combatting the most common causes of membrane fouling. It also extends the time between cleanings, maintains permeate flow rates, and maximizes membrane life and permeate quality. When properly applied, AMEROYAL RO helps reduce capital expenditures and operational costs.

AMEROYAL RO is a blend of polycarboxylic acid polymers and a phosphonic acid derivative that provides excellent control of:

- Calcium carbonate and sulfate scales
- Magnesium carbonate and sulfate scales
- Soluble and insoluble iron
- Silica fouling
- Dispersible particulates

AMEROYAL RO is compatible with all major membranes and has been tested and certified by the NSF International. The NSF is a respected independent certification organization for public health. AMEROYAL RO is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals up to a maximum level of 5 ppm in RO feedwater.



AMEROYAL RO is not affected by chlorine or other oxidizing biocides under normal conditions and may be added to systems that use sodium bisulfite.

APPLICATION & USE

AMEROYAL RO should be dosed continuously in proportion to the feedwater flow, upstream of high pressure pumps.

The product should be fed as far upstream as possible, but downstream of sand or coarse media filtration systems. It may be fed upstream of cartridge filters.

AMEROYAL RO may be fed neat, or diluted with RO permeate or distilled water to a maximum ratio of nine parts of water to one part of AMEROYAL RO.

The recommended dosage is 4.3 milliliters of AMEROYAL RO (undiluted) per metric ton of feedwater (5.0 ppm of product). Table 1 illustrates consumption data and feed rates for systems that operate at 40% freshwater recovery.

TABLE 1

Estimated ¹ Daily Fresh Water Production	Daily Sea Water Feed Volume	AMEROYAL RO Daily Consumption	Feed Rate Undiluted ml/hour	Feed Rate 9:1 Dilution ml/hour
10 MT	25 MT	0.11 L	4.5 ml	45 ml
50 MT	125 MT	0.55 L	22.5 ml	225 ml
100 MT	250 MT	1.1 L	45 ml	450 ml
200 MT	500 MT	2.2 L	90 ml	900 ml
500 MT	1250 MT	5.4 L	225 ml	2250 ml

Table 1- Dosage and Feed Rate Recommendations
(¹ assumes 40% freshwater recovery)

Additional information can be found in the Drew Marine RO Membrane Cleaning and Maintenance Guide.

Please contact your Drew Marine representative for more detailed instructions for the use of AMEROYAL RO to meet the specific needs of your system.

TYPICAL PROPERTIES

Appearance:	Light (or pale) yellow liquid
pH:	< 2
Specific Gravity (@ 20° C):	1.15
Flash Point:	None
Freeze Point:	- 5° C

NOTE: Always wear the appropriate personal protective equipment when using this product.

 **Contact your Drew Marine representative for more information**

PACKAGING

AMEROYAL RO is available in 21-liter containers (PCN 0025628).

IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.

FEATURES

- Advanced formulation of antiscalant polymers and organic scale inhibitors
- NSF/ANSI Standard 60 Certified
- Low Dosage

BENEFITS

- Extends time between cleanings
- Maximizes membrane life
- Sustains fresh water production rates
- Maximizes permeate quality
- Safe for use in RO feedwater that produces drinking water
- Cost effective



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