

REVERSE OSMOSIS RE-SIZING AGENT

Phoenix™ 3000

Re-sizing Agent

APPLICATIONS

Phoenix 3000 powder is used to recover the performance of partially oxidized or pH hydrolyzed polyamide membranes. It forms a coating on the surface of the membrane, improving salt rejection characteristics. Because it's applied on-line, there is no interruption in plant productivity.

Phoenix 3000 is compatible with all polyamide reverse osmosis (RO) membranes, and the formulation is certified by NSF International under NSF/ANSI Standard 60 for use in systems producing potable water.

INSTRUCTIONS FOR USE

1. Best results are achieved when the membrane system has been thoroughly cleaned, eliminating interference from foulants on the membrane surface.
2. A 30% solution requires 5 pounds of Phoenix 3000, 1.5 gallons (5.7 liters) of RO permeate or deionized (DI) water, and a jar stirrer, a magnetic stir plate, or other mixing device.
3. Slowly add approximately 10% of the Phoenix 3000 powder to the RO permeate or DI water while mixing at 150–250 rpm.
4. Mix until the Phoenix 3000 powder is completely in solution.
5. Slowly add the remaining Phoenix 3000, approximately 10% at a time.
6. Continue mixing for approximately two hours or until all of the Phoenix 3000 powder is completely dissolved and the solution exhibits a clear, dark brown/black appearance.
7. The recommended dosage is 300 ppm of the 30% solution with continuous injection for a minimum of 20 minutes.
8. Reapplication will be necessary following a chemical cleaning of the system, or sooner, depending on the system feedwater quality.

CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	Pale yellow to tan powder
pH (30% solution)	3.5 – 4.5

PERFORMANCE BENEFITS

- On-line application eliminates interruptions to plant productivity.
- Forms a coating on membrane surfaces to improve salt rejection characteristics.
- Reduces salt passage by up to 50%.
- Can be applied in 20 to 30 minutes.
- Recurrent applications allow continued membrane performance.

PACKAGING AND STORAGE

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request. The dilution should be made no more than 48 hours before scheduled use. It is not recommended to store a mixed solution for more than 72 hours before use.

PACKAGING FORMAT	AMERICAS	ASIA	EMEA
Mini pail	5 lbs	2 kg	-
Pail	20 lbs	9 kg	-



CERTIFIED TO
NSF/ANSI 60

Please consult your sales representative for further technical or logistical details, and always review the SDS before use to ensure suitable safety precautions are followed.

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