

Protect Your Investment:

Advanced RO Antiscalant Solution for Optimal Performance

Introducing **Advanced RO Antiscalant (AROA)**, a cutting-edge solution engineered to provide unparalleled protection against a wide spectrum of scaling and fouling challenges.

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Ro AntiScalant Chemicals

Protect your RO system from scaling and Fouling





Advance RO Antiscalant (ARO)

• Extend Membrane Lifespan:

- Significantly reduce membrane degradation caused by scale and fouling, leading to fewer costly membrane replacements.

• Reduced Operating Costs:

- Lower energy consumption due to maintained membrane flux and reduced pressure requirements.
- Decreased frequency and cost of chemical clean-in-place (CIP) procedures.
- Minimized downtime for system maintenance and repairs

• Consistent Water Quality:

- Ensure stable and high-quality permeate production by preventing membrane fouling and maintaining optimal rejection rates.

• Broad Spectrum Protection:

- Effective against ions like calcium (Ca^{2+}), magnesium (Mg^{2+}), barium (Ba^{2+}), and iron ($\text{Fe}^{2+}/\text{Fe}^{3+}$). By forming stable, soluble complexes, it prevents these ions from precipitating and forming hard, damaging scales like calcium carbonate (CaCO_3) and calcium sulfate (CaSO_4).

• Optimized System Performance:

- Maintain design recovery rates and reduce the need for constant operational adjustments.

• Ideal for Various Applications:

- Industrial Process Water Production
- Boiler Feed Water Pre-treatment
- Potable Water Treatment
- Wastewater Treatment & Reuse
- Hospitals & Pharmaceutical Industries
- Food & Beverage Production

Chemical Effects

Even at very low concentrations, **ARO** interferes with the initial stages of crystal growth, preventing microscopic scale nuclei from developing into large, adherent deposits on your membrane surfaces.

ARO can alter the crystal structure of scale, making any residual deposits softer, less adherent, and easier to remove during cleaning cycles.

ARO ensures that your membranes maintain optimal flux rates and reduce the frequency of costly clean-in-place (CIP) procedures.

ARO form a protective, passivating film on metal surfaces, safeguarding pipelines, pumps, and fittings from corrosion and extending their operational life. This also helps prevent the release of corrosion by-products that could otherwise foul your membranes.

