

# AXEON

## S-100 Antiscalant

**AXEON S-100 Antiscalant** is a highly effective antiscalant, specially formulated for feedwaters with high levels of metal oxides, silica and scale-forming minerals. It is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants, iron or aluminum rich silica. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. A special utility is in its application as a substitute for pretreatment with ion exchange beds.



### Product Benefits

- Effective in retarding polymerization and precipitation of silica
- Effectively controls inorganic scales over a large concentration range.
- Certified under ANSI/NSF Standard 60 for drinking water production.
- Compatible with major manufacturer's RO, NF, and UF membranes.
- Does not flocculate dissolved iron/aluminum oxide/silica complexes.
- Effective in controlling calcium carbonate and calcium sulfate scales.
- Effective in feedwaters with pH range 5.0 – 10.0
- Effective for controlling aluminum, iron and heavy metal salts.

### Technical Specifications

#### Liquid\*

- Appearance: Clear, colorless
- pH:  $1.5 \pm 0.8$
- Specific Gravity:  $1.08 \pm 0.05$

#### Powder\*

- Appearance: Colorless
- pH (1% in water): 11 – 12

#### Dosing Recommendations

**AXEON S-100 Antiscalant** should be injected into the feed-stream prior to the static mixer and cartridge filter. Effective pH range is 5 – 10. If frozen, may be thawed and mixed before use. Stability is excellent, but best used within 12 months.

#### Dosing Recommendations

In the useful dosage range of 1 – 15 mg/L (neat), S-100 controls a wide range of inorganic scales at up to 100 x saturation values or higher is possible. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of scales including that from calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate, iron hydroxide, aluminum hydroxide and silica.

#### Packaging

- Liquid: 5 gallons, 55 gallons

\* MSDS available upon request.

Engineered Water Treatment Solutions