



# American Water Chemicals, Inc.

*High Performance Membrane Antiscalants and Cleaning Chemicals*

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## AWC A-181P ANTISCALANT FOR MULTISTAGE FLASH EVAPORATORS (MSF)

### Description

**AWC A-181P** is a high performance, proprietary blend of scale inhibitors designed for superior control of calcium salt precipitation, scale formation and fouling in seawater multistage flash distillation plants.

**AWC A-181P** is effective against calcium carbonate scale formation at top brine temperatures greater than 100°C, where total control of particulate fouling and sludge is critical to maintain thermal efficiency.

**AWC A-181P** has superior control of Calcium Sulfate, Barium Sulfate, Strontium Sulfate, and Calcium fluoride

**AWC A-181P** will disperse any formed metal oxides, silt, clay and other colloidal particles in order to minimize frequency and difficulty of cleanings.

**AWC A-181P** is NSF approved under ANSI Standard 60 for drinking water applications

### Features and Advantages

- Designed to inhibit inorganic scale formation in flash distillation processes
- Disperses insoluble particulates, sludges and slurries
- Effective threshold inhibitor and crystal modifier
- Excellent thermal and hydrolytic stability
- Environmentally compatible, especially where discharge of waste into the environment is a concern

### Chemical Feeding And Control

**AWC A-181P** is normally fed continuously into the seawater make-up line or into the recycle brine stream. It should be injected by chemical dosing pump from a dilution tank or directly from the drum. The amount of **AWC A-181P** required to inhibit scale formation depends on the quality of feed-water, brine concentration factor and size and type of the flash distillation system. It should be dosed continuously and proportionately to the seawater make-up flow to maintain the recommended dose level. Typical dosage will be between 3 – 4 ppm.

### Typical Properties

Appearance.....	Clear, Yellow to Amber Liquid
Stability.....	Excellent
Solubility.....	Completely Soluble
pH (Undiluted).....	3 - 5
Specific Gravity, 25°C.....	1.18 ± 0.05

### Safety And Handling

Store in a cool, dry place. In accordance with good safety practice, handle with care and avoid contact with eyes and prolonged or repeated contact with skin. For more information, See the Material Safety Data Sheet provided with this product.

### Packaging

**AWC A-181P** is packaged in 275 Gal Totes, 55 Gal Drums or 5 Gal Pails. Other packaging is also available upon request.