



American Water Chemicals, Inc.

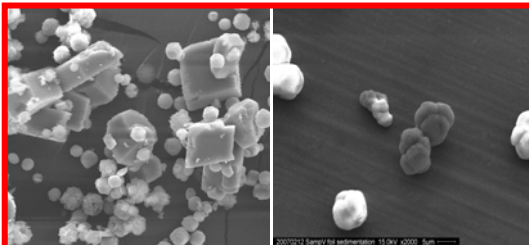
High Performance Membrane Antiscalants and Cleaning Chemicals

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AWC-A-102 PLUS Reverse Osmosis Membrane Antiscalant – Broad Spectrum

Advantages

- **AWC A-102 PLUS** is a broad spectrum antiscalant designed to inhibit inorganic scale formation in membrane separation processes.
- **AWC A-102 PLUS** inhibits calcium carbonate scale up to an LSI of 2.6.
- **AWC A-102 PLUS** effectively inhibits formation of calcium sulfate, calcium phosphate, calcium fluoride, barium sulfate, strontium sulfate and silica.
- **AWC A-102 PLUS** stabilizes metal ions to prevent metal oxides precipitation and disperses existing metal oxides/hydroxides, silt and clay particles.
- **AWC A-102 PLUS** has been approved by the National Sanitation Foundation (NSF) for the production of potable water in membrane separation processes.
- **AWC A-102 PLUS** is environmentally compatible, especially where discharge of waste into the environment is a concern.
- **AWC A-102 PLUS** has been approved for use by all major membrane manufacturers.



Left: Calcium carbonate crystal formation in the absence of antiscalant

Right: Distorted calcium carbonate crystals that form in the presence of A-102 Plus when the LSI exceeds 2.6. The non-cubic structure prevents formation of a continuous crystal lattice, and minimizes adhesion to the membrane surface allowing crystals to flush away in the concentrate

Typical Properties

Appearance Clear colorless to light yellow liquid
Odor Characteristic Odor
Solubility in water Complete
pH (as is) @ 25°C 3 – 4
Specific Gravity 1.10 ± 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.

Chemical Feeding and Control

AWC A-102 PLUS is normally fed continuously prior to the final cartridge filter. It should be injected by chemical dosing pump from a dilution tank or directly from the drum to the feedwater line. The amount of **AWC A-102 PLUS** required to inhibit scale formation depends on the quality of feed water and operational parameters of the membrane system. The specific control ranges will be specified by the technical representative and can also assist you in determining the appropriate dose rate for your system.

Packaging

AWC A-102 PLUS is packaged in 55 gallon, non-returnable plastic drums.

ISO 9001:2000 Certified Company

