



American Water Chemicals, Inc.

High Performance Membrane Antiscalants and Cleaning Chemicals

9203-A King Palm Drive, Tampa, FL 33619, USA

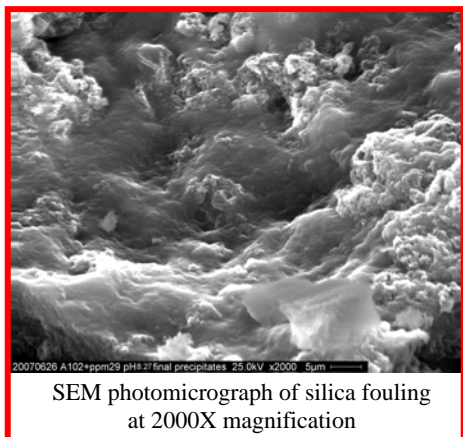
Tel: (813) 246-5448 - Fax: (813) 621-4085

www.membranechemicals.com

AWC A-103 Reverse Osmosis Membrane Antiscalant – Silica Antifoulant

Advantages

- **AWC A-103** is a proprietary blend of antiscalants, antifoulants and silica dispersants.
- **AWC A-103** is especially designed for use where silica levels are high, up to 250% saturation of Silica in the reject.
- **AWC A-103** effectively disperses aluminum-silicate foulants such as Kaolinites.
- **AWC A-103** stabilizes metal ions and disperses metal oxides such as Iron and Manganese as well as colloidal particles such as silt and clay.
- **AWC A-103** controls calcium carbonate, calcium sulfate, calcium phosphate, calcium fluoride, barium sulfate and strontium sulfate scales in waters with a high fouling potential.
- **AWC A-103** has been approved by the National Sanitation Foundation (NSF) for the production of potable water in membrane separation processes.
- **AWC A-103** is environmentally compatible, especially where discharge of waste into the environment is a concern.



SEM photomicrograph of silica fouling at 2000X magnification

Typical Properties

Appearance	Clear colorless to yellow liquid
Odor	Characteristic Odor
Solubility in water	Complete
pH (as is) @ 25°C	3 – 4
Specific Gravity	1.21 ± 0.03

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-103 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-103** required to inhibit scale formation depends on the quality of feedwater and operational parameters of the membrane system. The appropriate dosage rate will be specified by the technical representative.

Packaging

AWC A-103 is packaged in 55 gallon, non-returnable plastic drums.

ISO 9001 Certified Company

