

PERFORMANCE BENEFITS:

- A highly effective powdered cleaner for the removal of calcium carbonate and metals.
- Highly buffered to resist pH changes during the cleaning process.
- Designed specifically for microfiltration (MF) and ultrafiltration (UF) membrane systems.
- Suitable for use with other AvistaClean MF formulations.

Please consult your sales representative for further technical or logistical details and always review the SDS before use to ensure suitable safety precautions are followed.

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AvistaClean® MF 3000 powder is a low pH, proprietary cleaner that removes calcium carbonate and metal foulants from microfiltration (MF) and ultrafiltration (UF) membrane surfaces and pores.

This cleaner is a one-step cleaning process that can be used sequentially with AvistaClean MF 1000 or MF 1000A when the membrane foulants are colloidal and/or organic. AvistaClean MF 3000 has proven compatible with MF/UF modules offered by all major manufacturers.

INSTRUCTIONS FOR USE

Cleaning

Below are general guidelines for cleaning MF/UF systems. Please consult your system's manufacturer for more detailed instructions.

1. Fill the cleaning tank with reverse osmosis (RO) permeate or deionized water. If neither of these water sources is available, softened water may be used. Do not dissolve cleaners in hard water. The water volume required for cleaning is generally equal to the total volume of the system, hoses and cartridge filters.
2. Heat the water to the maximum temperature allowed by the MF/UF module manufacturer, usually 104°F (40°C).
3. When the water is hot, add the AvistaClean MF 3000 to the tank. Thoroughly dissolve the cleaner either by recirculating water through the tank or using a mechanical mixer. Add sufficient AvistaClean MF 3000 to create a 2% wt/wt solution if the fouling is moderate to severe or a 1% wt/wt solution if the fouling is mild.
4. With the filtrate valve shut, recirculate the cleaner through the modules in the feed direction for 30 minutes (for tubular designs only). After 30 minutes, reverse the flow direction, from the exit to the feed, for an additional 30 minutes.
5. Modules with a back flush design can be back flushed with cleaning solution in the filtrate-to-feed direction for 15 minutes, in addition to the recommended cleaning procedure.
6. Flush the system with soft water or MF/UF filtrate if suitable.

PRODUCT INFORMATION

Packaging and Storage

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request.

SPECIFICATIONS

Appearance: White powder

pH (2% solution): 2.8-3.5

PACKAGING FORMAT	AMERICAS/ ASIA	EMEA
Pail	45 lb	20 kg
Carboy	90 lb	-
Drum	350 lb	-