

MICROFILTRATION/ULTRAFILTRATION CLEANER

# AvistaClean™ MF 1000

MF/UF High pH Powder Cleaner

## APPLICATIONS

AvistaClean™ MF 1000 powder is a proprietary, one-step cleaner used to remove foulants from microfiltration (MF) and ultrafiltration (UF) membrane surfaces and pores. This cleaner acts on organic and particulate foulants and is compatible with the MF/UF modules offered by major membrane manufacturers.

AvistaClean MF 1000 is NSF certified for off-line use in drinking water systems and can be used in conjunction with AvistaClean MF 3000 when membrane foulants contain calcium carbonate and/or metals.

## CLEANING

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

1. Prior to the clean-in-place (CIP) procedure, initiate a backwash sequence. This will help remove any large particulates from the feed side of the fibers before cleaning.
2. Fill the cleaning tank with reverse osmosis (RO) permeate or deionized water. If neither of these is available, soft 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.
3. Heat the water to the maximum temperature allowed by the MF/UF module manufacturer.
4. Add the AvistaClean MF 1000 to the tank. Thoroughly dissolve the cleaner either by recirculating water through the tank or using a mechanical mixer. Add sufficient AvistaClean MF 1000 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.
5. Following the membrane manufacturer's recommendations for cleaning, circulate or soak the cleaning solution using the CIP system for 30 minutes for mild fouling and 60 minutes for moderate to severe fouling.
6. Optional cleaning methods, when applicable, include cleaning in the back-flush design (filtrate to feed side) and/or air scouring.
7. Flush the system with soft water or MF/UF filtrate if suitable.

## CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	White powder
pH (2% solution)	10.9 – 12.4

## PERFORMANCE BENEFITS

- A highly effective powdered cleaner for the removal of organic and colloidal foulants.
- Highly buffered to resist pH changes during the cleaning process.
- Designed specifically for both MF and UF membrane systems.
- Suitable for use with other AvistaClean™ MF formulations.

## PACKAGING AND STORAGE

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

PACKAGING FORMAT	AMERICAS	ASIA	EMEA
Pail	45 lb	20 kg	20 kg
Carboy	90 lb	45 kg	-
Drum	350 lb	100 kg	-

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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