

MF/UF CLEANER

AvistaClean™ MF 3000

Low pH Powder Cleaner

APPLICATIONS

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 one-step cleaner 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.

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 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.
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)	2.4 – 3.8

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 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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