

# Minnclean® TF

## Reverse Osmosis Membrane Cleaner



**35 pound pail**  
Catalog number: MC1757



**2 four pound containers**  
Catalog number: MC1750

### Minnclean® TF Cleaner

For use on thin film composite (polyamide) reverse osmosis membrane systems. Especially formulated to remove organic foulants such as grease, grime and biological matter from the membrane surface. Minnclean® TF is an alkaline (high pH) membrane cleaner.

### Specifications

- Compound . . . . . Alkaline Powder
- Normal Cleaning . . . . . 1 pound cleaner per 15 gallons RO water
- pH of Solution . . . . . 11.4 to 11.2
- Foam Level . . . . . Moderate
- Cloud Point . . . . . None
- Rinsability . . . . . Good
- Storage . . . . . Store sealed container in a cool dry place. Indefinite cleaner stability under good storage conditions.

# Minnclean® TF

## Reverse Osmosis Membrane Cleaner — Alkaline

For removing oil, grease, biological matter and grime on thin film composite membrane surfaces. For industrial use only.

### Directions:

1. Drain as much water from the system as possible.
2. Attach feed water, product water and waste discharge lines to a 30 gallon or larger tank and fill unit and tank with good quality water.
3. Use 1 pound of MINNCLEAN® TF for every 15 gallons of water in the system. Stir well to aid dissolution. For best results, water temperature should be 95-105°F (35-40°C).
4. Recirculate cleaning solution in forward mode at minimum possible pressure for 30 minutes.
5. Discharge cleaning solution to drain, drain system, clean tank and fill with clean water. Rinse for 15 minutes, adding water as needed.
6. After rinsing, return system to service and discard product water for at least 30 minutes after start up.
7. Repeat cleaning cycle if flux has not been returned to expected value.

NOTICE: Our only obligation shall be to replace or pay for any membrane cleaner material proven defective. It is the responsibility of the user to observe any limitations and/or parameters of chemical compatibility placed on the membranes by the manufacturer.

**KEEP OUT OF REACH OF CHILDREN**

## WARNING

**May cause burns. Harmful if swallowed.**

**Contains Sodium Metasilicate**

Prevent contact with eyes and prolonged contact with skin. Consult material safety data sheet for additional information. For industrial use only.

For chemical emergency, spill, leak, fire, exposure or accident, call CHEMTREC, day or night, 800-424-9300. In District of Columbia and outside continental U.S.A., call 202-483-7616.

In case of contact with eyes, flush thoroughly with water. Get medical attention. If taken internally and person can swallow, give one glass of water or milk. Do not induce vomiting. Get immediate medical attention. For external contact, thoroughly wash affected areas after handling.

**Call (800) 328-3370**

[www.minntech.com](http://www.minntech.com)

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