

## **OsmoF<sub>2</sub>O™ Forward Osmosis Membranes Flat Sheet Membranes**

This document provides information for Flat Sheet Membranes sold under Part Numbers FSB-CTA-8X10, FSB-CTA-10X10 and FSB-CTA-12X12.

The flat sheet material is constructed of a low fouling cellulose membrane. This product is sold for testing purposes in test equipment to be supplied by others. The individual sheet may be cut to fit specific dimensions to seal within the test apparatus.

Wear gloves when removing the sheet from the package. Keep membrane moist at all times. Look closely at the membrane and handle with care when cutting. Scissors may be used. The “shiny side” should be facing the feed (retentate side). The “mesh” side faces the draw solution (permeate side).

### **Summary of Operating Limits and Guidelines:**

|                                     |   |
|-------------------------------------|---|
| Membrane Requirements (*)           | Membrane must be kept moist at all times (do NOT allow to freeze) |
| Membrane Type                       | Cellulose Triacetate (CTA)  |
| Max. Operating Temp                 | 120 deg F (50 deg C)  |
| Max. Inlet Pressure                 | 75 psi  |
| Minimum Transmembrane Pressure (**) | 5 psi   |
| pH Operating Range                  | 3 to 7  |
| Maximum Chlorine                    | 2 ppm   |
| Recommended Pre-filtration          | 100 um or lower (if particulates are present)                     |

(\*) If membrane dries out, it is impossible to re-wet and should be discarded. If membrane freezes, pore structure may lose integrity and membrane should be discarded.

(\*\*) Maintain higher pressure on the retentate feed side. Control permeate (draw solution) side to have some pressure and flow to keep minimum transmembrane pressure at 5 psi or above.

Refer to FTS Document FSB 01 for Handling, Storage and Preservation Procedures.

**Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water.**

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