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Service Reference

Topic: PTOC/PTIC Membrane Shells, Tips & Tricks

Please read carefully before performing work or unpacking any further

Required Materials

- None

Required Tools

- None

These Membrane Shells are also called neutral, since they select based upon size rather than ionic charge. The membrane is hydrophobic and thus has a wetting agent on it. This wetting agent allows the membrane to be wet and function as a Cell. During ED tank dumps, steps must be taken to keep the membrane wet at all times.

Please read all the instructions listed below to familiarize yourself with the project before attempting to perform any of the work.

1. The membrane is fragile so only handle the Shell by holding it by the Neck, Collar, and/or Cap
2. If the membrane is ever taken out of the paint bath and allowed to air dry for even a few minutes, then it is likely the membrane will never function properly again.
3. If there is an ED Tank dump, then each of the PTOC & PTIC Cells must be removed, stored in a plastic sleeve, and packed with DI water.
4. The removal of the PTOC & PTIC Cells is the reverse of what is described in Bulletin #993112.
5. Quickly rinse off the outside of the Membrane Shell with DI water and place into a 100 mm (4") diameter plastic sleeve and pack it with DI water. Seal the plastic sleeve and store in a safe and secure area. Use Bulletin #993112 to re-install the Cell when the ED Tank is refilled. If you require a plastic sleeve, contact UFS

and ask for "Packing, Poly Sleeve", Part Number 140xxx and tell UFS how long the Membrane Shell is and customer service can select the appropriate length for the plastic sleeve.

6. Monitor the current to insure there is current flowing through the Cell.
7. These Cells should have an overflow rate of something less than 10 cc/amp-second.
8. If the current or the overflow rate ever falls off to the zero, it is time to inspect the Electrode or replace the Membrane Shell.
9. Add enough neutralizer the raise the conductivity to 1000 microS/cm, if it is ever necessary to refill the Cell with DI water.

For more information see the original manual that came with the equipment or else call UFS at the phone number shown above.