High Performance & Efficiency in New Flat Sheet Forward Osmosis Membranes Offered by Sterlitech

Save on energy and operational expenditure with low fouling, high efficiency FO membranes

KENT, Wash. (PRWEB) September 11, 2018 -- Sterlitech Corporation, a global leader in custom filtration systems, is proud to add flat sheet Forward Osmosis (FO) membranes from Fluid Technology Solutions (FTS H2O) to their offering of filtration products.

The new FO membranes manufactured by FTS H2O are constructed from cellulose triacetate (CTA) material. The highly hydrophilic nature of the CTA FO membranes favors proper wetting of the membranes used in aqueous feed solutions. This means water molecules are easily pulled through the membrane to produce purified water or other feed solutions, even at low pressures.

According to Sepideh Jankhah, Product Manager for Membrane and Process Development at Sterlitech, “The low fouling propensity of this membrane opens up new applications, where pressure-driven membranes currently fail to be efficient.” Additionally, “The CTA FO membranes offer the advantage of being resistant to chlorine.” Compared to traditional thin film composite FO membranes, CTA membranes are easier to use because the membrane filtration system doesn’t need to be devoid of chlorine prior to adding the feed solution. In fact, maintaining chlorine in the water provides an additional bonus of extending membrane life by preventing biofouling.

To enable our customers to explore forward osmosis applications, from seawater desalination and wastewater reclamation to energy generation and food/beverage concentration, Sterlitech is offering these high flux FO membranes in flat sheet format. Taking advantage of the osmotic pressure as the driving force for mass transfer across the membrane, CTA FO membranes can treat extremely challenging wastewaters such as landfill leachate, oily wastewater, and injection well waters without the need for extensive pretreatment compared to pressure driven membrane systems such as reverse osmosis. Additionally, these FO membranes are efficient for treating solutions with high salinity or for concentration of food and beverage products.

Features and benefits of FTS H2O membranes:
- Low capital and operating expenditure
- Excellent antifouling characteristics
- Energy savings via operation at very low pressure (about 2.5-3.5 bar)
- Ability to treat very high TDS wastewater and concentrate brine

About Sterlitech:
Located in Kent, Washington USA, Sterlitech was founded in 2001. Its founders have over 90 years of combined experience in membrane and microfiltration technology. The company has developed a strong global brand recognition serving a vast number of end markets in over 125 countries.

Sterlitech Corporation’s portfolio covers an array of unparalleled filtration products designed to push the boundaries of:
- Execution of routine methods
- Membrane development
- Application innovation

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Our aim is to equip scientists, entrepreneurs, and visionaries with the means to transform ideas into reality.

About FTS:
The FTS management and technical team has specific expertise in water treatment solutions utilizing forward osmosis and complimentary wastewater filtration technologies. Intellectual property development, skills and expertise in commercializing forward osmosis systems, and the capability to achieve Zero Liquid Discharge (ZLD) enable them to meet the most stringent regulatory requirements.
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