

**0046**

**SDI Analysis for RO Applications**

Status: Pending

Category: 1 Water Filtration

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The commercial use of submicron microfiltration membranes as prefiltration devices prior to reverse osmosis membrane systems is growing rapidly. The use of a hollow fiber membrane prefilter lowers the cost of ownership for the reverse osmosis (RO) system by minimizing RO membrane fouling. The silt density index (SDI) test is an empirical test used to judge the fouling tendency of a water stream fed to a reverse osmosis unit. This paper will describe the operation of submicron microfilter membrane system and outline how the material of construction of the analytical membrane used to conduct a SDI test can influence the SDI test results.